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OM protein - protein search, using sw model

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Perfect score: 1204
Sequence: 1 MGMTMLVPLALLGLMMVY.....PTIQAPGRASPEPKTKRQR 223

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

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Maximum Match 100%
Listing first 1500 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
2	1181	98.1	227	2	US-09-208-718-3
3	1177	97.8	227	2	US-09-621-976-8
4	1177	97.8	227	2	US-09-513-999C-8
5	1177	97.8	227	2	US-09-471-276-8
6	235.5	19.6	187	2	US-09-492-308A-7
7	231	19.2	152	2	US-09-408-718-6
8	225	18.7	187	3	US-10-362-642B-1
9	222.5	18.5	187	3	US-09-654-281B-4
10	222	18.4	220	2	US-09-654-281B-5
11	218.5	18.4	186	2	US-09-492-308A-8
12	213	17.7	187	2	US-09-654-281B-3
13	211	17.5	187	2	US-09-654-281B-2
14	210.5	17.5	187	1	US-08-403-378B-4
15	205	17.0	187	3	US-08-403-378B-15
16	205	17.0	187	3	US-10-362-642B-2
17	164	13.6	175	2	US-09-600-726A-2
18	164	13.6	175	2	US-09-845-849A-2
19	161.5	13.4	141	2	US-09-270-767-43926
20	157	13.0	272	2	US-09-248-796A-16385
21	148	12.3	181	2	US-09-654-281B-6
22	148	12.3	181	2	US-09-654-281B-2
23	142.5	11.8	177	2	US-09-492-308A-23
24	139	11.5	152	1	US-07-644-372-2
25	137.5	11.4	120	2	US-09-270-767-33653
26	137.5	11.4	120	2	US-09-270-767-48870
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30	131.5	10.9	177	2	US-09-492-308A-21	Sequence 21, Appl
31	130.5	10.8	177	2	US-09-492-308A-20	Sequence 20, Appl
32	122.5	10.2	219	2	US-09-654-281B-8	Sequence 8, Appl
33	102.5	8.5	33	3	US-09-845-849A-8	Sequence 8, Appl
34	99.5	8.3	132	2	US-09-270-767-57507	Sequence 57507, A
35	98.5	8.3	258	2	US-09-270-767-42220	Sequence 42220, A
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42	89.5	7.4	176	2	US-09-050-739-50	Sequence 50, Appl
43	89.5	7.4	176	2	US-09-804-980-50	Sequence 50, Appl
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45	88	7.3	167	2	US-09-902-331B-4	Sequence 4, Appl
46	87	7.2	165	2	US-09-902-331B-12	Sequence 12, Appl
47	85	7.1	165	2	US-09-902-331B-14	Sequence 14, Appl
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57	76.5	6.4	168	2	US-09-714-767A-9	Sequence 9, Appl
58	76.5	6.4	321	2	US-09-166-350-15	Sequence 15, Appl
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63	75.5	6.3	1101	2	US-09-225-170-14	Sequence 14, Appl
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75	74	6.1	233	2	US-09-705-392A-25	Sequence 25, Appl
76	74	6.1	233	2	US-09-705-398-25	Sequence 25, Appl
77	74	6.1	233	5	PCR-US93-07832-25	Sequence 25, Appl
78	74	6.1	548	2	US-09-509-744-3	Sequence 3, Appl
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87	72.5	6.0	327	2	US-08-591-694-12	Sequence 12, Appl
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103	71.5	5.9	575	2	US-09-510-949-2	Sequence 2, Appl1	176	67	214	2	US-08-437-642B-24	Sequence 24, Appl1
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110	71	5.9	757	2	US-09-252-991A-20231	Sequence 20231, A	183	67	244	2	US-08-813-323C-10	Sequence 10, Appl1
111	71	5.9	1935	2	US-09-949-016-10970	Sequence 10970, A	184	67	347	2	US-09-268-544B-38	Sequence 38, Appl1
112	70.5	5.9	71	2	US-09-492-308A-15	Sequence 15, Appl1	185	67	347	2	US-09-950-902-4	Sequence 4, Appl1
113	70.5	5.9	394	2	US-09-489-039A-8445	Sequence 8445, Ap	186	67	372	1	US-08-403-634-2	Sequence 2, Appl1
114	70.5	5.9	998	2	US-09-252-991A-30462	Sequence 30462, A	187	67	372	1	US-08-403-634-30	Sequence 30, Appl1
115	70	5.8	438	2	US-09-950-902-2	Sequence 2, Appl1	188	67	372	2	US-08-913-441B-2	Sequence 2, Appl1
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119	69.5	5.8	438	2	US-08-182-045-12	Sequence 12, Appl1	192	67	372	2	US-09-771-161A-203	Sequence 203, App
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139	68.5	5.7	472	1	US-08-489-039A-14227	Sequence 14227, A	219	66.5	180	2	US-09-698-341-46	Sequence 46, Appl1
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141	68.5	5.7	605	2	US-09-432-496-2	Sequence 2, Appl1	221	66.5	285	2	US-09-289-349-12	Sequence 12, Appl1
142	68.5	5.7	605	2	US-09-832-616-2	Sequence 2, Appl1	222	66.5	328	2	US-09-531-056A-13	Sequence 13, Appl1
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144	68	5.6	214	2	US-08-811-757-1	Sequence 1, Appl1	224	66.5	398	2	US-09-489-039A-10213	Sequence 2, Appl1
145	68	5.6	214	2	US-09-349-230-1	Sequence 1, Appl1	225	66.5	451	2	US-08-878-177-2	Sequence 2, Appl1
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147	68	5.6	233	2	US-08-030-175-43	Sequence 43, Appl1	227	66.5	514	2	US-09-252-991A-8208	Sequence 28208, A
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151	68	5.6	475	3	US-09-277-401B-9	Sequence 9, Appl1	231	66	114	2	US-09-845-848A-5	Sequence 5, Appl1
152	68	5.6	585	2	US-09-462-951B-1	Sequence 1, Appl1	232	66	233	2	US-09-252-991A-32770	Sequence 32770, A
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265	65	5.4	443	2	US-09-984-880-2	Sequence 2, Appli	338	64	5.3	180	2	US-09-698-341-45	Sequence 45, Appli
266	65	5.4	449	2	US-10-277-032-2	Sequence 2, Appli	339	64	5.3	180	2	US-09-698-341-46	Sequence 46, Appli
267	65	5.4	449	2	US-10-681-223-2	Sequence 2, Appli	340	64	5.3	214	1	US-10-011-125A-5	Sequence 5, Appli
268	65	5.4	518	2	US-09-404-008-2	Sequence 2, Appli	341	64	5.3	214	1	US-07-934-373C-40	Sequence 40, Appli
269	65	5.4	574	2	US-09-489-039A-13400	Sequence 13400, A	342	64	5.3	214	1	US-08-788-800-11	Sequence 11, Appli
270	65	5.4	599	2	US-09-000-145-2	Sequence 2, Appli	343	64	5.3	214	2	US-08-437-642B-40	Sequence 40, Appli
271	65	5.4	637	2	US-09-949-016-10128	Sequence 2, Appli	344	64	5.3	214	2	US-09-037-309-2	Sequence 2, Appli
272	65	5.4	749	2	US-09-949-016-10080	Sequence 10080, A	345	64	5.3	214	2	US-09-097-171A-2	Sequence 2, Appli
273	65	5.4	877	1	US-08-907-166-8	Sequence 8, Appli	346	64	5.3	214	2	US-09-460-587-2	Sequence 2, Appli
274	65	5.4	877	1	US-09-391-340-8	Sequence 8, Appli	347	64	5.3	214	2	US-09-724-166A-2	Sequence 2, Appli
275	65	5.4	951	2	US-09-125-635-8	Sequence 8, Appli	348	64	5.3	214	5	US-09-724-166A-2	Sequence 2, Appli
276	65	5.4	983	2	US-09-412-554A-2	Sequence 2, Appli	349	64	5.3	215	2	PCT-US93-07832-40	Sequence 40, Appli
277	65	5.4	1296	2	US-08-857-636-60	Sequence 60, Appli	350	64	5.3	215	2	US-09-902-540-10404	Sequence 10404, A
278	65	5.4	1302	2	US-09-949-016-10852	Sequence 10852, A	351	64	5.3	216	1	US-08-821-637-3	Sequence 3, Appli
279	65	5.4	1420	2	US-09-125-635-4	Sequence 4, Appli	352	64	5.3	216	2	US-09-215-160-3	Sequence 3, Appli
280	65	5.4	1434	1	US-08-540-406-10	Sequence 10, Appli	353	64	5.3	237	2	US-09-097-309-6	Sequence 6, Appli
281	65	5.4	1434	2	US-08-656-055-10	Sequence 10, Appli	354	64	5.3	237	2	US-09-422-712B-2	Sequence 2, Appli
282	65	5.4	1434	2	US-08-954-668-10	Sequence 10, Appli	355	64	5.3	237	2	US-09-607-756-2	Sequence 2, Appli
283	65	5.4	1434	2	US-08-918-658-10	Sequence 10, Appli	356	64	5.3	237	2	US-09-460-587-6	Sequence 6, Appli
284	65	5.4	1434	2	US-09-724-631-10	Sequence 10, Appli	357	64	5.3	237	2	US-09-940-166A-6	Sequence 6, Appli
285	65	5.4	1434	2	US-08-954-701A-10	Sequence 10, Appli	358	64	5.3	237	2	US-09-724-166A-10	Sequence 10, Appli
286	65	5.4	1434	2	US-09-754-032-10	Sequence 10, Appli	359	64	5.3	264	2	US-09-710-379-286	Sequence 286, App
287	65	5.4	1434	2	US-08-916-140-30	Sequence 10, Appli	360	64	5.3	264	2	US-09-134-001C-4466	Sequence 4466, Ap
288	65	5.4	1434	2	PCT-US95-13233-10	Sequence 10, Appli	361	64	5.3	266	2	US-09-902-540-14033	Sequence 14033, A
289	65	5.4	1447	1	US-08-540-406-19	Sequence 19, Appli	362	64	5.3	266	2	US-09-331-581-24	Sequence 24, Appli
290	65	5.4	1447	2	US-08-656-055-19	Sequence 19, Appli	363	64	5.3	337	2	US-09-949-016-7799	Sequence 7799, Ap
291	65	5.4	1447	2	US-08-954-668-19	Sequence 19, Appli	364	64	5.3	421	2	US-09-198-452A-535	Sequence 535, App
292	65	5.4	1447	2	US-09-268-140-5	Sequence 5, Appli	365	64	5.3	429	2	US-09-438-185A-497	Sequence 497, App
293	65	5.4	1447	2	US-08-918-658-19	Sequence 19, Appli	366	64	5.3	449	2	US-09-198-452A-1114	Sequence 1114, Ap
294	65	5.4	1447	2	US-09-724-631-19	Sequence 19, Appli	367	64	5.3	449	2	US-09-438-185A-1040	Sequence 1040, Ap
295	65	5.4	1447	2	US-08-954-701A-19	Sequence 19, Appli	368	64	5.3	449	2	US-09-270-767-44193	Sequence 44193, A
296	65	5.4	1447	2	US-09-807-007-6	Sequence 6, Appli	369	64	5.3	532	4	US-08-579-777A-2	Sequence 2, Appli
297	65	5.4	1447	2	US-09-754-032-19	Sequence 19, Appli	370	64	5.3	555	1	US-08-440-377A-6	Sequence 6, Appli
298	65	5.4	1447	2	US-08-916-140-19	Sequence 19, Appli	371	64	5.3	555	1	US-08-687-852-6	Sequence 6, Appli
299	65	5.4	1447	5	PCT-US95-13233-19	Sequence 19, Appli	372	64	5.3	759	2	US-09-540-236-2782	Sequence 2782, Ap
300	64.5	5.4	108	2	US-09-513-989C-4705	Sequence 4705, Ap	373	64	5.3	776	2	US-09-698-341-3	Sequence 3, Appli
301	64.5	5.4	223	2	US-09-270-767-38681	Sequence 38681, A	374	64	5.3	778	1	US-08-906-925-5	Sequence 5, Appli
302	64.5	5.4	223	2	US-09-270-767-53898	Sequence 53898, A	375	64	5.3	857	2	US-09-252-991A-31764	Sequence 31764, A
303	64.5	5.4	265	2	US-09-710-279-174	Sequence 174, Appl	376	64	5.3	1069	2	US-09-502-540-11566	Sequence 11566, A
304	64.5	5.4	300	2	US-09-585-858-45	Sequence 45, Appli	377	64	5.3	1300	2	US-09-698-341-3	Sequence 3, Appli
305	64.5	5.4	322	2	US-10-270-878-45	Sequence 45, Appli	378	64	5.3	1300	2	US-09-248-796A-18983	Sequence 18983, A
306	64.5	5.4	322	2	US-09-640-211A-784	Sequence 784, App	379	63.5	5.3	225	2	US-09-423-439-18	Sequence 18, Appli
307	64.5	5.4	354	2	US-10-099-332-58	Sequence 58, Appli	380	63.5	5.3	229	2	US-09-004-731-44	Sequence 44, Appli
308	64.5	5.4	354	2	US-10-044-564-58	Sequence 58, Appli	381	63.5	5.3	229	2	US-08-749-699-44	Sequence 44, Appli
309	64.5	5.4	360	2	US-09-252-991A-21624	Sequence 21624, A	382	63.5	5.3	229	2	US-09-004-729-44	Sequence 44, Appli
310	64.5	5.4	369	2	US-09-328-352-1297	Sequence 4297, Ap	383	63.5	5.3	242	2	US-09-004-731-41	Sequence 41, Appli
311	64.5	5.4	437	2	US-09-334-001C-5342	Sequence 5342, Ap	384	63.5	5.3	242	2	US-09-032-215-47	Sequence 47, Appli
312	64.5	5.4	501	2	US-09-367-206-3	Sequence 3, Appli	385	63.5	5.3	242	2	US-08-749-699-41	Sequence 41, Appli
313	64.5	5.4	501	2	US-09-298-404-3	Sequence 3, Appli	386	63.5	5.3	242	2	US-09-004-729-41	Sequence 41, Appli
314	64.5	5.4	508	2	US-10-104-047-3488	Sequence 3488, Ap	387	63.5	5.3	300	2	US-08-158-735A-17	Sequence 17, Appli
315	64.5	5.4	533	2	US-09-489-039A-7511	Sequence 7511, Ap	388	63.5	5.3	314	2	US-09-360-376-14	Sequence 14, Appli
316	64.5	5.4	550	2	US-09-344-510B-4	Sequence 4, Appli	389	63.5	5.3	330	2	US-09-605-703B-916	Sequence 916, App
317	64.5	5.4	554	2	US-09-438-185A-124	Sequence 124, App	390	63.5	5.3	358	2	US-09-821-736-4	Sequence 4, Appli
318	64.5	5.4	648	2	US-09-902-540-14001	Sequence 14001, A	391	63.5	5.3	358	2	US-09-252-991A-32042	Sequence 32042, A
319	64.5	5.4	707	1	US-08-803-973-12	Sequence 12, Appli	392	63.5	5.3	358	2	US-09-949-016-6906	Sequence 6906, Ap
320	64.5	5.4	707	1	US-08-803-972-12	Sequence 12, Appli	393	63.5	5.3	414	2	US-09-252-991A-28694	Sequence 28694, A
321	64.5	5.4	812	1	US-08-446-794A-2	Sequence 2, Appli	394	63.5	5.3	501	1	US-08-149-105-17	Sequence 17, Appli
322	64.5	5.4	812	1	US-08-750-007-3	Sequence 3, Appli	395	63.5	5.3	501	1	US-08-317-847-17	Sequence 17, Appli
323	64.5	5.4	832	1	US-08-945-024-2	Sequence 2, Appli	396	63.5	5.3	501	2	US-09-949-016-9766	Sequence 9766, Ap
324	64.5	5.4	834	2	US-09-252-991A-28145	Sequence 28145, A	397	63.5	5.3	503	2	US-09-382-256-10	Sequence 10, Appli
325	64.5	5.4	845	2	US-09-949-016-6331	Sequence 8331, Ap	398	63.5	5.3	503	2	US-09-395-115-10	Sequence 10, Appli
326	64.5	5.4	1014	2	US-09-344-510B-3	Sequence 3, Appli	399	63.5	5.3	503	2	US-08-123-934A-10	Sequence 10, Appli
327	64.5	5.4	1172	2	US-09-328-352-6071	Sequence 6071, Ap	400	63.5	5.3	503	2	US-08-436-265-10	Sequence 10, Appli

401	63.5	5.3	503	2	US-09-679-187-10	Sequence 10, Appl	474	62.5	5.2	214	1	US-08-480-753-6	Sequence 6, Appl
402	63.5	5.3	503	2	US-09-874-628-10	Sequence 10, Appl	475	62.5	5.2	214	2	US-09-041-889-11	Sequence 11, Appl
403	63.5	5.3	503	2	US-09-267-9630-10	Sequence 10, Appl	476	62.5	5.2	214	2	US-08-837-058-11	Sequence 11, Appl
404	63.5	5.3	503	2	US-09-949-016-6528	Sequence 6528, Ap	477	62.5	5.2	214	2	US-09-417-264-11	Sequence 11, Appl
405	63.5	5.3	503	2	US-09-903-068C-10	Sequence 10, Appl	478	62.5	5.2	220	2	US-09-134-000C-6778	Sequence 6778, Ap
406	63.5	5.3	503	5	PCT-US94-10080-10	Sequence 10, Appl	479	62.5	5.2	233	2	US-09-485-737B-69	Sequence 69, Appl
407	63.5	5.3	503	5	US-09-248-796A-18577	Sequence 18577, A	480	62.5	5.2	233	2	US-10-071-485-69	Sequence 69, Appl
408	63.5	5.3	636	2	US-09-489-039A-13947	Sequence 13947, A	481	62.5	5.2	265	2	US-09-438-185A-10	Sequence 10, Appl
409	63.5	5.3	674	1	US-08-803-973-7	Sequence 7, Appl	482	62.5	5.2	265	2	US-09-489-039A-12711	Sequence 12711, A
410	63.5	5.3	674	1	US-08-803-972-7	Sequence 7, Appl	483	62.5	5.2	298	2	US-09-107-433-5121	Sequence 5121, Ap
411	63.5	5.3	753	2	US-09-248-796A-19041	Sequence 19041, A	484	62.5	5.2	328	2	US-09-583-110-4999	Sequence 4999, Ap
412	63.5	5.3	786	2	US-09-543-681A-6650	Sequence 6650, Ap	485	62.5	5.2	344	2	US-09-120-365-63	Sequence 63, Appl
413	63.5	5.3	899	2	US-09-107-433-3196	Sequence 3196, Ap	486	62.5	5.2	344	2	US-09-515-039-63	Sequence 63, Appl
414	63.5	5.3	1286	7	5206163-1	Patent No. 5206163	487	62.5	5.2	345	2	US-09-270-767-60554	Sequence 60554, A
415	63.5	5.3	1359	2	US-09-388-221B-4	Sequence 4, Appl	488	62.5	5.2	389	2	US-09-949-002-501	Sequence 501, App
416	63.5	5.3	1429	2	US-10-029-347-26	Sequence 26, Appl	489	62.5	5.2	404	2	US-09-270-767-45164	Sequence 45164, A
417	63.5	5.3	1429	2	US-10-183-770A-15	Sequence 15, Appl	490	62.5	5.2	527	2	US-10-094-749-1697	Sequence 1697, Ap
418	63.5	5.3	1429	2	US-09-996-617-2	Sequence 2, Appl	491	62.5	5.2	592	2	US-09-328-352-4438	Sequence 4438, Ap
419	63.5	5.3	1443	2	US-09-388-221B-6	Sequence 6, Appl	492	62.5	5.2	593	2	US-09-000-145-4	Sequence 4, Appl
420	63.5	5.3	1456	1	US-08-803-973-2	Sequence 2, Appl	493	62.5	5.2	603	2	US-09-252-991A-25038	Sequence 25038, A
421	63.5	5.3	1456	1	US-08-803-972-2	Sequence 2, Appl	494	62.5	5.2	688	2	US-09-538-092-799	Sequence 799, App
422	63.5	5.3	1473	2	US-09-388-221B-2	Sequence 2, Appl	495	62.5	5.2	858	2	US-09-538-092-1127	Sequence 1127, Ap
423	63.5	5.3	2627	1	US-08-751-189-3	Sequence 3, Appl	496	62.5	5.2	898	2	US-09-583-110-3750	Sequence 3750, Ap
424	63.5	5.3	2627	1	US-09-060-836-3	Sequence 3, Appl	497	62.5	5.2	1008	2	US-09-949-016-10423	Sequence 10423, A
425	63.5	5.3	2627	1	US-09-184-445-3	Sequence 3, Appl	498	62.5	5.2	1028	2	US-09-583-110-4290	Sequence 4290, Ap
426	63.5	5.3	113	2	US-09-621-976-4206	Sequence 4206, Ap	499	62.5	5.2	1030	2	US-09-107-433-2786	Sequence 2786, Ap
427	63.5	5.2	206	1	US-08-097-827-7	Sequence 7, Appl	500	62.5	5.2	1068	2	US-09-926-820-1	Sequence 1, Appl
428	63.5	5.2	206	1	US-08-494-574-7	Sequence 7, Appl	501	62.5	5.2	1068	1	US-08-429-054A-11	Sequence 11, Appl
429	63.5	5.2	225	2	US-09-238-741-2	Sequence 2, Appl	502	62.5	5.2	1068	2	US-08-718-777-7	Sequence 7, Appl
430	63.5	5.2	239	2	US-09-543-681A-7402	Sequence 7402, Ap	503	62.5	5.2	1068	2	US-09-051-341-7	Sequence 7, Appl
431	63.5	5.2	301	2	US-09-512-342-14	Sequence 14, Appl	504	62.5	5.2	1068	2	US-09-394-272-8	Sequence 8, Appl
432	63.5	5.2	331	2	US-09-107-532A-4953	Sequence 4953, Ap	505	62.5	5.2	1068	2	US-08-429-053-11	Sequence 11, Appl
433	63.5	5.2	336	2	US-09-489-039A-13630	Sequence 13630, A	506	62.5	5.2	1129	2	US-10-029-347-3	Sequence 3, Appl
434	63.5	5.2	407	2	US-09-248-796A-19586	Sequence 19586, A	507	62.5	5.2	1129	2	US-10-183-770A-3	Sequence 3, Appl
435	63.5	5.2	416	2	US-09-949-016-8237	Sequence 8237, Ap	508	62.5	5.2	1116	2	US-09-949-016-11331	Sequence 1131, A
436	63.5	5.2	418	1	US-09-252-991A-22888	Sequence 22888, A	509	62.5	5.2	2285	2	US-09-252-991A-17790	Sequence 17790, A
437	63.5	5.2	438	1	US-08-097-827-11	Sequence 11, Appl	510	62.5	5.1	689	2	US-09-060-726A-7	Sequence 7, Appl
438	63.5	5.2	438	1	US-08-494-574-11	Sequence 11, Appl	511	62.5	5.1	72	2	US-09-845-849A-7	Sequence 7, Appl
439	63.5	5.2	478	2	US-08-878-177-4	Sequence 11, Appl	512	62.5	5.1	176	2	US-09-252-991A-10933	Sequence 10933, A
440	63.5	5.2	483	2	US-09-902-540-12728	Sequence 12728, A	513	62.5	5.1	218	2	US-09-134-000C-4932	Sequence 4932, Ap
441	63.5	5.2	485	2	US-09-651-941-9	Sequence 9, Appl	514	62.5	5.1	383	2	US-09-902-540-11160	Sequence 11160, A
442	63.5	5.2	485	2	US-09-955-597-9	Sequence 9, Appl	515	62.5	5.1	410	2	US-09-949-016-7021	Sequence 7021, Ap
443	63.5	5.2	498	2	US-09-786-240-1	Sequence 1, Appl	516	62.5	5.1	455	1	US-08-679-635A-5	Sequence 5, Appl
444	63.5	5.2	508	2	US-09-655-270A-9	Sequence 9, Appl	517	62.5	5.1	455	2	US-09-419-163-5	Sequence 5, Appl
445	63.5	5.2	528	2	US-08-904-871-5	Sequence 5, Appl	518	62.5	5.1	499	2	US-09-902-540-14146	Sequence 14146, A
446	63.5	5.2	536	1	US-08-492-027A-8	Sequence 8, Appl	519	62.5	5.1	504	2	US-09-487-558B-208	Sequence 208, App
447	63.5	5.2	539	2	US-09-832-441-2	Sequence 2, Appl	520	62.5	5.1	554	2	US-09-198-452A-140	Sequence 140, App
448	63.5	5.2	539	2	US-09-833-102-2	Sequence 2, Appl	521	62.5	5.1	621	2	US-09-489-039A-13909	Sequence 13909, A
449	63.5	5.2	622	2	US-09-305-381-2	Sequence 2, Appl	522	62.5	5.1	663	2	US-09-252-991A-10843	Sequence 10843, A
450	63.5	5.2	725	2	US-09-252-991A-23752	Sequence 23752, A	523	62.5	5.1	706	1	US-08-074-967-2	Sequence 2, Appl
451	63.5	5.2	748	2	US-08-904-871-6	Sequence 6, Appl	524	62.5	5.1	706	1	US-08-553-541B-2	Sequence 2, Appl
452	63.5	5.2	748	2	US-08-904-871-13	Sequence 13, Appl	525	62.5	5.1	706	2	US-08-268-202-2	Sequence 2, Appl
453	63.5	5.2	812	2	US-09-489-039A-12075	Sequence 12075, A	526	62.5	5.1	706	5	PCT-US94-06699-2	Sequence 2, Appl
454	63.5	5.2	879	1	US-08-220-151-3	Sequence 2, Appl	527	62.5	5.1	755	2	US-09-097-767A-38	Sequence 38, Appl
455	63.5	5.2	879	1	US-08-220-151-3	Sequence 3, Appl	528	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
456	63.5	5.2	879	1	US-08-413-118-2	Sequence 3, Appl	529	62.5	5.1	825	2	US-09-134-000C-4999	Sequence 4999, Ap
457	63.5	5.2	879	1	US-08-413-118-3	Sequence 3, Appl	530	62.5	5.1	829	2	US-09-902-540-11104	Sequence 11104, A
458	63.5	5.2	879	1	US-08-413-118-106	Sequence 106, App	531	62.5	5.1	843	2	US-09-252-991A-32609	Sequence 32609, A
459	63.5	5.2	879	2	US-08-473-446-2	Sequence 2, Appl	532	62.5	5.1	962	2	US-09-205-658-310	Sequence 310, App
460	63.5	5.2	879	2	US-08-473-446-3	Sequence 3, Appl	533	62.5	5.1	1130	2	US-09-538-092-834	Sequence 834, App
461	63.5	5.2	879	2	US-08-473-446-106	Sequence 106, App	534	62.5	5.1	1148	2	US-09-949-016-6798	Sequence 6798, Ap
462	63.5	5.2	1052	2	US-10-094-749-2050	Sequence 2050, Ap	535	62.5	5.1	1169	2	US-09-949-016-9630	Sequence 9630, Ap
463	63.5	5.2	1085	1	US-08-485-588-5	Sequence 5, Appl	536	62.5	5.1	1286	2	US-09-252-991A-25589	Sequence 25589, A
464	63.5	5.2	1085	1	US-08-484-565-5	Sequence 5, Appl	537	62.5	5.1	1507	2	US-08-929-329-5	Sequence 5, Appl
465	63.5	5.2	1085	1	US-08-480-751-5	Sequence 5, Appl	538	61.5	5.1	235	2	US-09-011-769A-27	Sequence 27, Appl
466	63.5	5.2	1085	1	US-08-943-986-5	Sequence 5, Appl	539	61.5	5.1	236	2	US-09-328-352-6285	Sequence 6285, Ap
467	63.5	5.2	1085	2	US-08-353-784-5	Sequence 5, Appl	540	61.5	5.1	271	1	US-07-914-282D-4	Sequence 4, Appl
468	63.5	5.2	1085	2	US-08-484-719B-5	Sequence 5, Appl	541	61.5	5.1	271	1	US-08-276-887A-4	Sequence 4, Appl
469	63.5	5.2	1085	2	US-08-484-159-5	Sequence 5, Appl	542	61.5	5.1	271	5	PCT-US93-02460-4	Sequence 4, Appl
470	63.5	5.2	1151	2	US-09-170-279-2448	Sequence 2448, Ap	543	61.5	5.1	285	2	US-09-252-991A-25780	Sequence 25780, A
471	63.5	5.2	1151	2	US-09-134-001C-3428	Sequence 3428, Ap	544	61.5	5.1	291	2	US-09-902-540-10710	Sequence 10710, A
472	63.5	5.2	1481	2	US-09-251-645-14	Sequence 14, Appl	545	61.5	5.1	292	2	US-09-489-039A-12760	Sequence 12760, A
473	62.5	5.2	134	2	US-09-252-991A-25154	Sequence 25154, A	546	61.5	5.1	297	2	US-09-543-681A-8242	Sequence 8242, Ap

547	61.5	5.1	349	2	US-09-248-796A-16744	Sequence 16744, A	620	61	5.1	774	2	US-09-073-259-1	Sequence 1, Appli
548	61.5	5.1	371	2	US-10-104-047-2994	Sequence 2994, Ap	621	61	5.1	774	2	US-09-363-095-1	Sequence 1, Appli
549	61.5	5.1	388	2	US-09-252-991A-21572	Sequence 21572, A	622	61	5.1	774	2	US-09-418-027-1	Sequence 1, Appli
550	61.5	5.1	414	2	US-09-248-796A-19046	Sequence 19046, A	623	61	5.1	779	1	US-08-375-134-12	Sequence 12, Appli
551	61.5	5.1	414	2	US-10-058-518-2	Sequence 2, Appli	624	61	5.1	779	5	PCT-US95-15263-12	Sequence 12, Appli
552	61.5	5.1	457	2	US-08-431-517F-14	Sequence 14, Appli	625	61	5.1	1132	2	US-10-094-749-1920	Sequence 1920, Ap
553	61.5	5.1	472	1	US-08-749-903-5	Sequence 5, Appli	626	61	5.1	2317	2	US-09-949-016-10109	Sequence 10109, A
554	61.5	5.1	472	2	US-09-088-641-5	Sequence 5, Appli	627	61	5.1	2680	2	US-09-489-039A-7973	Sequence 7973, Ap
555	61.5	5.1	483	2	US-08-431-517F-13	Sequence 13, Appli	628	61	5.1	2860	1	US-08-826-267-2	Sequence 2, Appli
556	61.5	5.1	569	2	US-09-514-245-22	Sequence 22, Appli	629	60.5	5.0	193	2	US-09-949-016-7888	Sequence 7888, Ap
557	61.5	5.1	612	2	US-09-248-796A-15682	Sequence 15682, A	630	60.5	5.0	197	2	US-09-252-991A-27889	Sequence 27889, A
558	61.5	5.1	617	2	US-09-252-991A-29507	Sequence 29507, A	631	60.5	5.0	202	2	US-09-902-540-11464	Sequence 11464, A
559	61.5	5.1	727	2	US-09-585-858-32	Sequence 32, Appli	632	60.5	5.0	212	2	US-09-036-985A-2	Sequence 2, Appli
560	61.5	5.1	727	2	US-10-270-878-32	Sequence 32, Appli	633	60.5	5.0	224	2	US-09-456-090A-40	Sequence 40, Appli
561	61.5	5.1	775	1	US-07-966-278-1	Sequence 1, Appli	634	60.5	5.0	224	2	US-09-453-234-40	Sequence 40, Appli
562	61.5	5.1	775	1	US-08-424-921-1	Sequence 1, Appli	635	60.5	5.0	225	2	US-09-893-737-292	Sequence 292, Appli
563	61.5	5.1	775	1	US-08-556-355A-1	Sequence 1, Appli	636	60.5	5.0	239	2	US-08-812-886-29	Sequence 29, Appli
564	61.5	5.1	775	1	US-07-803-627A-1	Sequence 1, Appli	637	60.5	5.0	239	2	US-09-535-932A-30	Sequence 30, Appli
565	61.5	5.1	775	2	US-09-244-889A-1	Sequence 1, Appli	638	60.5	5.0	239	2	US-10-104-047-2603	Sequence 2603, Ap
566	61.5	5.1	776	1	US-08-688-649-37	Sequence 37, Appli	639	60.5	5.0	240	2	US-10-094-749-3051	Sequence 3051, Ap
567	61.5	5.1	844	2	US-09-640-958-8	Sequence 8, Appli	640	60.5	5.0	258	2	US-09-328-352-8149	Sequence 8149, Ap
568	61.5	5.1	908	2	US-09-635-872A-15	Sequence 15, Appli	641	60.5	5.0	332	2	US-10-094-749-2300	Sequence 2300, Ap
569	61.5	5.1	908	2	US-09-636-077A-15	Sequence 15, Appli	642	60.5	5.0	370	1	US-08-341-538A-2	Sequence 2, Appli
570	61.5	5.1	908	2	US-09-636-060C-15	Sequence 15, Appli	643	60.5	5.0	370	1	US-08-725-518-2	Sequence 2, Appli
571	61.5	5.1	908	2	US-09-986-552-15	Sequence 15, Appli	644	60.5	5.0	370	2	US-09-538-092-1286	Sequence 1286, Ap
572	61.5	5.1	908	2	US-09-636-596C-15	Sequence 15, Appli	645	60.5	5.0	373	2	US-09-949-016-6581	Sequence 6581, Ap
573	61.5	5.1	908	2	US-10-023-894-9	Sequence 9, Appli	646	60.5	5.0	373	2	US-10-099-322-59	Sequence 59, Appli
574	61.5	5.1	908	2	US-10-306-686-15	Sequence 15, Appli	647	60.5	5.0	373	2	US-10-044-564-59	Sequence 59, Appli
575	61.5	5.1	908	2	US-09-895-072-15	Sequence 15, Appli	648	60.5	5.0	376	2	US-09-949-016-11385	Sequence 11385, A
576	61.5	5.1	908	2	US-10-023-888-9	Sequence 9, Appli	649	60.5	5.0	380	2	US-08-468-846-2	Sequence 2, Appli
577	61.5	5.1	927	2	US-08-895-601-6	Sequence 6, Appli	650	60.5	5.0	380	2	US-08-915-096A-2	Sequence 2, Appli
578	61.5	5.1	946	2	US-09-903-540-16817	Sequence 16817, A	651	60.5	5.0	380	2	US-10-099-322-60	Sequence 60, Appli
579	61.5	5.1	1809	2	US-09-012-515A-12	Sequence 12, Appli	652	60.5	5.0	380	2	US-10-044-564-60	Sequence 60, Appli
580	61.5	5.1	1809	2	US-08-360-144A-12	Sequence 12, Appli	653	60.5	5.0	381	2	US-09-248-796A-16356	Sequence 16356, A
581	61.5	5.1	1809	2	US-09-012-504A-12	Sequence 12, Appli	654	60.5	5.0	384	2	US-09-949-016-9661	Sequence 9661, Ap
582	61.5	5.1	1809	2	US-09-012-399A-12	Sequence 12, Appli	655	60.5	5.0	435	2	US-09-248-796A-17565	Sequence 17565, A
583	61.5	5.1	1822	2	US-09-949-016-7999	Sequence 7999, Ap	656	60.5	5.0	435	2	US-09-500-495A-6	Sequence 6, Appli
584	61.5	5.1	2549	2	US-08-471-112A-3	Sequence 3, Appli	657	60.5	5.0	437	2	US-09-248-796A-17709	Sequence 17709, A
585	61.5	5.1	2549	2	US-09-950-634-3	Sequence 3, Appli	658	60.5	5.0	442	2	US-09-543-681A-6645	Sequence 6645, Ap
586	61.5	5.1	2549	2	US-09-538-092-1112	Sequence 1112, Ap	659	60.5	5.0	442	2	US-08-985-492-13	Sequence 13, Appli
587	61.5	5.1	2549	5	PCT-US95-06722-12	Sequence 12, Appli	660	60.5	5.0	510	2	US-10-094-749-1654	Sequence 1654, Ap
588	61.5	5.1	161	2	US-09-583-110-752	Sequence 4752, Ap	661	60.5	5.0	511	2	US-09-252-991A-32947	Sequence 32947, A
589	61.5	5.1	166	2	US-09-107-433-1102	Sequence 3102, A	662	60.5	5.0	512	2	US-09-252-991A-1953	Sequence 1953, Ap
590	61.5	5.1	223	2	US-09-248-796A-23094	Sequence 23094, A	663	60.5	5.0	512	2	US-10-094-749-2907	Sequence 2907, Ap
591	61.5	5.1	252	2	US-09-252-991A-30900	Sequence 30900, A	664	60.5	5.0	519	2	US-09-252-991A-18063	Sequence 18063, A
592	61.5	5.1	322	2	US-09-489-039A-8442	Sequence 8442, Ap	665	60.5	5.0	519	2	US-09-252-991A-18063	Sequence 18063, A
593	61.5	5.1	359	2	US-09-489-039A-8365	Sequence 8365, Ap	666	60.5	5.0	667	2	US-08-959-004-11	Sequence 11, Appli
594	61.5	5.1	368	2	US-09-252-991A-19552	Sequence 19552, A	667	60.5	5.0	668	2	US-09-252-991A-19879	Sequence 19879, A
595	61.5	5.1	383	2	US-09-248-796A-20283	Sequence 20283, A	668	60.5	5.0	772	2	US-10-094-749-2566	Sequence 2566, Ap
596	61.5	5.1	386	2	US-09-328-352-8185	Sequence 8185, Ap	669	60.5	5.0	824	2	US-09-134-000C-4908	Sequence 4908, Ap
597	61.5	5.1	389	2	US-10-808-807-6	Sequence 6, Appli	670	60.5	5.0	864	2	US-09-751-687-18	Sequence 18, Appli
598	61.5	5.1	397	5	PCT-US95-17111A-121	Sequence 121, App	671	60.5	5.0	1088	2	US-09-252-991A-227278	Sequence 22728, A
599	61.5	5.1	476	2	US-10-214-269-2	Sequence 2, Appli	672	60.5	5.0	1213	2	US-09-949-002-572	Sequence 572, App
600	61.5	5.1	495	2	US-09-252-991A-24607	Sequence 24607, A	673	60.5	5.0	1226	1	US-08-280-443-2	Sequence 2, Appli
601	61.5	5.1	496	2	US-09-339-1598-28	Sequence 28, Appli	674	60.5	5.0	1226	1	US-08-457-459-2	Sequence 2, Appli
602	61.5	5.1	497	2	US-09-181-339-3	Sequence 3, Appli	675	60.5	5.0	1226	1	US-08-555-678-2	Sequence 2, Appli
603	61.5	5.1	560	1	US-08-808-931-18	Sequence 18, Appli	676	60.5	5.0	1226	2	US-09-949-002-313	Sequence 313, App
604	61.5	5.1	560	2	US-08-808-333-18	Sequence 18, Appli	677	60.5	5.0	1226	5	PCT-US95-02275-92	Sequence 2, Appli
605	61.5	5.1	560	2	US-09-050-603A-18	Sequence 18, Appli	678	60.5	5.0	1266	5	US-09-917-254-92	Sequence 92, Appli
606	61.5	5.1	560	2	US-09-102-420B-18	Sequence 18, Appli	679	60.5	5.0	1953	1	US-08-157-005-2	Sequence 2, Appli
607	61.5	5.1	560	2	US-09-497-698-18	Sequence 18, Appli	680	60.5	5.0	2336	2	US-08-747-863-2	Sequence 2, Appli
608	61.5	5.1	565	2	US-09-730-525-18	Sequence 18, Appli	681	60.5	5.0	2336	2	US-09-565-864-2	Sequence 2, Appli
609	61.5	5.1	565	2	US-09-252-991A-28571	Sequence 28571, A	682	60.5	5.0	2336	2	US-10-226-065-2	Sequence 2, Appli
610	61.5	5.1	587	2	US-09-831-683B-4	Sequence 4, Appli	683	60.5	5.0	2336	2	US-08-826-667-1	Sequence 1, Appli
611	61.5	5.1	639	2	US-09-949-016-6812	Sequence 6812, Ap	684	60.5	5.0	2549	2	US-08-305-790B-2	Sequence 2, Appli
612	61.5	5.1	652	2	US-09-949-016-7323	Sequence 7323, Ap	685	60.5	5.0	2549	2	US-08-305-790B-2	Sequence 2, Appli
613	61.5	5.1	660	2	US-09-252-991A-22842	Sequence 22842, A	686	60.5	5.0	119	2	US-09-302-540-12746	Sequence 12746, A
614	61.5	5.1	710	1	US-08-162-809-32	Sequence 22, Appli	687	60.5	5.0	183	2	US-09-543-681A-32427	Sequence 427, Ap
615	61.5	5.1	722	1	US-08-162-809-4	Sequence 4, Appli	688	60.5	5.0	186	2	US-09-540-236-36237	Sequence 3337, Ap
616	61.5	5.1	744	1	US-08-162-809-50	Sequence 20, Appli	689	60.5	5.0	188	2	US-09-248-796A-16423	Sequence 16423, A
617	61.5	5.1	774	2	US-08-902-632-2	Sequence 2, Appli	690	60.5	5.0	282	2	US-09-902-540-15602	Sequence 15602, A
618	61.5	5.1	774	2	US-09-073-354-1	Sequence 1, Appli	691	60.5	5.0	332	5	PCT-US91-0271A-21	Sequence 21, Appli
619	61.5	5.1	774	2	US-08-656-005A-1	Sequence 1, Appli	692	60.5	5.0	354	2	US-09-134-000C-52443	Sequence 52443, Ap
							693	60.5	5.0			US-09-758-759-33	Sequence 33, Appli

710	60	5.0	398	1	US-08-474-379C-86	Sequence 86, Appl	794	59.5	4.9	609	2	US-09-949-016-7750	Sequence 7750, Ap
711	60	5.0	414	2	US-09-107-532A-6114	Sequence 6114, Ap	795	59.5	4.9	609	2	US-09-949-016-7751	Sequence 7751, Ap
712	60	5.0	422	2	US-09-217-328-7	Sequence 7, Appl	796	59.5	4.9	609	2	US-09-949-016-7752	Sequence 7752, Ap
713	60	5.0	424	2	US-08-311-731A-220	Sequence 220, Appl	797	59.5	4.9	609	2	US-09-949-016-7753	Sequence 7753, Ap
714	60	5.0	445	2	US-09-949-016-11396	Sequence 11396, A	798	59.5	4.9	609	2	US-09-949-016-7754	Sequence 7754, Ap
715	60	5.0	478	2	US-09-270-767-43204	Sequence 43204, A	799	59.5	4.9	619	2	US-09-538-092-16	Sequence 94, Appl
716	60	5.0	508	2	US-09-252-991A-17606	Sequence 17606, A	800	59.5	4.9	653	2	US-09-252-991A-16802	Sequence 16802, A
717	60	5.0	513	2	US-09-595-857B-30	Sequence 30, Appl	801	59.5	4.9	662	2	US-09-061-768A-25	Sequence 25, Appl
718	60	5.0	535	2	US-09-949-016-6847	Sequence 6847, Ap	802	59.5	4.9	662	2	US-09-764-246-25	Sequence 25, Appl
719	60	5.0	542	2	US-08-675-816-6	Sequence 6, Appl	803	59.5	4.9	662	2	US-09-949-002-315	Sequence 315, Appl
720	60	5.0	552	2	US-09-773-426A-9	Sequence 9, Appl	804	59.5	4.9	697	2	US-09-252-991A-3689	Sequence 32689, A
721	60	5.0	552	2	US-10-314-881-9	Sequence 9, Appl	805	59.5	4.9	804	2	US-08-981-446B-3	Sequence 3, Appl
722	60	5.0	560	2	US-09-902-540-15502	Sequence 15502, A	806	59.5	4.9	1034	2	US-09-252-991A-20969	Sequence 20969, A
723	60	5.0	599	2	US-09-252-991A-17250	Sequence 17250, A	807	59.5	4.9	1058	2	US-09-583-110-4572	Sequence 4522, Ap
724	60	5.0	605	2	US-09-949-016-9305	Sequence 9305, Ap	808	59.5	4.9	1069	2	US-10-160-719A-18	Sequence 18, Appl
725	60	5.0	608	2	US-09-134-001C-3395	Sequence 3395, Ap	809	59.5	4.9	1086	2	US-10-160-719A-18	Sequence 18, Appl
726	60	5.0	636	2	US-10-104-047-3666	Sequence 3666, Ap	810	59.5	4.9	1086	2	US-10-160-719A-38	Sequence 38, Appl
727	60	5.0	658	1	US-07-688-352C-22	Sequence 22, Appl	811	59.5	4.9	1086	2	US-09-900-237-10	Sequence 10, Appl
728	60	5.0	654	2	US-09-902-540-14501	Sequence 14501, A	812	59.5	4.9	1086	2	US-10-209-059-50	Sequence 50, Appl
729	60	5.0	673	2	US-09-091-725-23	Sequence 23, Appl	813	59.5	4.9	1164	2	US-09-949-016-9269	Sequence 9269, Ap
730	60	5.0	686	1	US-08-942-521B-9	Sequence 9, Appl	814	59.5	4.9	1261	2	US-09-248-796A-16620	Sequence 16620, A
731	60	5.0	711	2	US-10-094-749-2616	Sequence 2616, Ap	815	59.5	4.9	1261	2	US-09-445-353E-3	Sequence 3, Appl
732	60	5.0	734	2	US-09-146-249A-85	Sequence 85, Appl	816	59.5	4.9	1264	3	US-09-866-557A-2	Sequence 2, Appl
733	60	5.0	734	2	US-08-206-188B-85	Sequence 85, Appl	817	59.5	4.9	1392	2	US-09-538-092-1327	Sequence 1327, Ap
734	60	5.0	886	1	US-08-474-379C-65	Sequence 65, Appl	818	59.5	4.9	159	2	US-09-270-767-60687	Sequence 60687, A
735	60	5.0	886	2	US-09-146-249A-65	Sequence 65, Appl	819	59.5	4.9	111	2	US-09-149-476-673	Sequence 673, Ap
736	60	5.0	886	2	US-08-206-188B-65	Sequence 65, Appl	820	59.5	4.9	142	2	US-09-489-039A-8799	Sequence 8799, Ap
737	60	5.0	898	1	US-08-474-379C-12	Sequence 12, Appl	821	59.5	4.9	145	2	US-09-252-991A-22630	Sequence 22630, A
738	60	5.0	898	2	US-09-146-249A-12	Sequence 12, Appl	822	59.5	4.9	155	2	US-09-328-986-116	Sequence 1243, Ap
739	60	5.0	898	2	US-08-206-188B-12	Sequence 12, Appl	823	59.5	4.9	170	2	US-09-228-986-116	Sequence 116, Ap
740	60	5.0	900	1	US-07-688-352C-12	Sequence 12, Appl	824	59.5	4.9	213	2	US-10-101-464A-116	Sequence 116, Ap
741	60	5.0	901	2	US-09-917-354-93	Sequence 93, Appl	825	59.5	4.9	213	2	US-10-138-727A-42	Sequence 42, Appl
742	60	5.0	1037	2	US-09-252-991A-16796	Sequence 16796, A	826	59.5	4.9	227	2	US-09-489-039A-10192	Sequence 10192, A
743	60	5.0	1438	2	US-09-358-092-189	Sequence 189, Appl	827	59.5	4.9	227	2	US-09-949-427A-7	Sequence 7, Appl
744	60	5.0	1903	2	US-09-949-016-8049	Sequence 8049, Ap	828	59.5	4.9	234	2	US-09-848-832-4	Sequence 4, Appl
745	60	5.0	1912	2	US-08-913-832A-2	Sequence 2, Appl	829	59.5	4.9	239	2	US-10-000-489-8	Sequence 8, Appl
746	60	5.0	1912	2	US-09-249-181A-2	Sequence 2, Appl	830	59.5	4.9	239	2	US-09-992-095B-8	Sequence 8, Appl
747	60	5.0	1912	2	US-09-158-707-2	Sequence 2, Appl	831	59.5	4.9	239	3	US-10-000-986A-8	Sequence 8, Appl
748	60	5.0	1997	2	US-09-949-016-6275	Sequence 6275, Ap	832	59.5	4.9	241	2	US-09-712-363-219	Sequence 219, Appl
749	60	5.0	2183	2	US-08-746-111-5	Sequence 5, Appl	833	59.5	4.9	253	2	US-09-489-039A-13477	Sequence 13477, A
750	60	5.0	2375	2	US-09-538-092-1131	Sequence 1131, Ap	834	59.5	4.9	256	2	US-09-248-796A-15990	Sequence 15990, A
751	59.5	4.9	88	2	US-09-621-976-6877	Sequence 6877, Ap	835	59.5	4.9	268	2	US-08-836-134-22	Sequence 22, Appl
752	59.5	4.9	112	2	US-09-060-726A-5	Sequence 5, Appl	836	59.5	4.9	268	2	US-09-493-784-22	Sequence 22, Appl
753	59.5	4.9	182	1	US-08-698-805-4	Sequence 4, Appl	837	59.5	4.9	277	1	US-08-762-129-5	Sequence 5, Appl
754	59.5	4.9	210	2	US-09-902-540-14845	Sequence 14845, A	838	59.5	4.9	277	2	US-09-949-016-6126	Sequence 6126, Ap
755	59.5	4.9	219	2	US-09-902-540-12679	Sequence 12679, A	839	59.5	4.9	293	2	US-09-402-540-16212	Sequence 16212, A
756	59.5	4.9	228	2	US-09-270-767-34872	Sequence 34872, A	840	59.5	4.9	293	2	US-09-037-143-50	Sequence 50, Appl
757	59.5	4.9	228	2	US-09-270-767-34872	Sequence 34872, A	841	59.5	4.9	295	2	US-08-260-174-50	Sequence 50, Appl
758	59.5	4.9	234	2	US-09-740-002-24	Sequence 24, Appl	842	59.5	4.9	295	2	US-09-338-128A-50	Sequence 50, Appl
759	59.5	4.9	271	2	US-09-461-325-199	Sequence 199, Appl	843	59.5	4.9	295	2	US-09-332-346-50	Sequence 50, Appl
760	59.5	4.9	271	2	US-10-012-542-199	Sequence 199, Appl	844	59.5	4.9	295	2	US-10-040-430-50	Sequence 50, Appl
761	59.5	4.9	271	2	US-10-115-123-199	Sequence 199, Appl	845	59.5	4.9	308	2	US-09-949-016-11042	Sequence 11042, A
762	59.5	4.9	306	2	US-09-392-772-6	Sequence 6, Appl	846	59.5	4.9	324	2	US-09-107-532A-6145	Sequence 6145, Ap
763	59.5	4.9	322	2	US-09-134-001C-3194	Sequence 3194, Ap	847	59.5	4.9	325	2	US-09-134-000C-4346	Sequence 4346, Ap
764	59.5	4.9	327	2	US-09-949-016-9200	Sequence 9200, Ap	848	59.5	4.9	334	2	US-09-328-859-2	Sequence 2, Appl
765	59.5	4.9	327	2	US-09-949-016-9201	Sequence 9201, Ap	849	59.5	4.9	376	2	US-09-252-991A-17393	Sequence 17393, A
766	59.5	4.9	327	2	US-09-949-016-9202	Sequence 9202, Ap	850	59.5	4.9	376	2	US-09-252-991A-10042	Sequence 10042, A
767	59.5	4.9	327	2	US-09-949-016-9203	Sequence 9203, Ap	851	59.5	4.9	448	2	US-09-543-681A-7737	Sequence 7737, Ap
768	59.5	4.9	327	2	US-09-949-016-9204	Sequence 9204, Ap	852	59.5	4.9	460	2	US-09-826-509-513	Sequence 513, Appl
769	59.5	4.9	327	2	US-09-949-016-9205	Sequence 9205, Ap	853	59.5	4.9	469	2	US-09-522-991A-25438	Sequence 25438, A
770	59.5	4.9	327	2	US-09-949-016-9206	Sequence 9206, Ap	854	59.5	4.9	474	2	US-09-332-041-5	Sequence 5, Appl
771	59.5	4.9	347	2	US-08-857-076-100	Sequence 100, Appl	855	59.5	4.9	479	1	US-08-313-553-7	Sequence 7, Appl
772	59.5	4.9	372	2	US-09-252-991A-29108	Sequence 29108, A	856	59.5	4.9	479	1	US-08-767-993-7	Sequence 7, Appl
773	59.5	4.9	397	2	US-09-252-991A-20113	Sequence 20113, A	857	59.5	4.9	506	2	US-09-489-039A-8821	Sequence 8821, Ap
774	59.5	4.9	419	2	US-09-252-991A-31409	Sequence 31409, A	858	59.5	4.9	516	2	US-10-094-749-3095	Sequence 3095, Ap
775	59.5	4.9	459	2	US-09-252-991A-26783	Sequence 26783, A	859	59.5	4.9	530	2	US-09-197-063-2	Sequence 2, Appl
776	59.5	4.9	476	2	US-08-624-635-5	Sequence 5, Appl	860	59.5	4.9	540	2	US-09-252-991A-20846	Sequence 20846, A
777	59.5	4.9	485	2	US-09-949-016-10440	Sequence 10440, A	861	59.5	4.9	540	2	US-09-252-991A-30398	Sequence 30398, A
778	59.5	4.9	485	2	US-09-328-352-6663	Sequence 6663, Ap	862	59.5	4.9	541	2	US-08-828-199A-2	Sequence 2, Appl
779	59.5	4.9	533	2	US-09-949-016-10362	Sequence 10362, A	863	59.5	4.9	552	1	US-07-999-280A-22	Sequence 22, Appl
790	59.5	4.9	609	2	US-09-949-016-7747	Sequence 7747, Ap	864	59.5	4.9	552	1	US-08-426-279-22	Sequence 22, Appl
791	59.5	4.9	609	2	US-09-949-016-7748	Sequence 7748, Ap	865	59.5	4.9	552	1	US-08-401-013-22	Sequence 22, Appl
792	59.5	4.9	609	2	US-09-949-016-7749	Sequence 7749, Ap	866	59.5	4.9	552	2	US-08-426-570-22	Sequence 22, Appl
793	59.5	4.9	609	2	US-09-949-016-7749	Sequence 7749, Ap	866	59.5	4.9	552	2	US-08-426-570-22	Sequence 22, Appl

867	59	4.9	552	2	US-08-425-876-22	Sequence 22, Appl	940	58.5	4.9	429	2	US-09-252-991A-29792	Sequence 29792, A
868	59	4.9	552	2	US-08-426-243-22	Sequence 22, Appl	941	58.5	4.9	444	2	US-09-402-532-7	Sequence 7, Appl
869	59	4.9	552	2	US-08-401-633-22	Sequence 22, Appl	942	58.5	4.9	451	2	US-09-902-580-15865	Sequence 15865, A
870	59	4.9	573	2	US-09-328-352-6016	Sequence 6016, Ap	943	58.5	4.9	467	2	US-09-252-991A-27314	Sequence 27314, A
871	59	4.9	573	2	US-09-489-039A-12091	Sequence 12091, A	944	58.5	4.9	471	1	US-08-203-905B-2	Sequence 2, Appl
872	59	4.9	612	2	US-09-902-540-9694	Sequence 9694, Ap	945	58.5	4.9	471	1	US-09-949-016-5774	Sequence 6774, Ap
873	59	4.9	614	2	US-09-252-991A-19833	Sequence 19833, A	946	58.5	4.9	472	1	US-08-749-903-3	Sequence 3, Appl
874	59	4.9	636	2	US-09-949-016-11656	Sequence 11656, A	947	58.5	4.9	472	2	US-09-088-641-3	Sequence 3, Appl
875	59	4.9	728	2	US-09-949-016-8296	Sequence 8296, Ap	948	58.5	4.9	477	2	US-08-704-711A-20	Sequence 20, Appl
876	59	4.9	769	1	US-08-243-542-4	Sequence 4, Appl	949	58.5	4.9	477	2	US-08-448-489-15	Sequence 15, Appl
877	59	4.9	769	1	US-08-477-407-4	Sequence 4, Appl	950	58.5	4.9	477	2	US-08-281-313-1	Sequence 9, Appl
878	59	4.9	769	1	US-08-484-355-4	Sequence 4, Appl	951	58.5	4.9	477	2	US-09-521-220-20	Sequence 20, Appl
879	59	4.9	769	1	US-09-949-016-9605	Sequence 9605, Ap	952	58.5	4.9	477	2	US-09-391-104-21	Sequence 21, Appl
880	59	4.9	769	1	US-09-949-016-9606	Sequence 9606, Ap	953	58.5	4.9	477	2	US-09-669-730-15	Sequence 15, Appl
881	59	4.9	828	2	US-09-107-532A-4191	Sequence 4191, Ap	954	58.5	4.9	477	2	US-09-949-002-342	Sequence 342, Ap
882	59	4.9	917	2	US-09-902-540-12845	Sequence 12845, A	955	58.5	4.9	481	2	US-09-543-681A-4726	Sequence 4726, Ap
883	59	4.9	929	2	US-09-697-022-3	Sequence 3, Appl	956	58.5	4.9	482	2	US-09-949-002-538	Sequence 538, Ap
884	59	4.9	966	1	US-08-868-786-2	Sequence 2, Appl	957	58.5	4.9	483	2	US-09-949-016-11046	Sequence 11046, A
885	59	4.9	981	1	US-08-649-046-2	Sequence 2, Appl	958	58.5	4.9	503	2	US-09-657-013-50	Sequence 50, Appl
886	59	4.9	1044	1	US-10-101-464A-956	Sequence 956, App	959	58.5	4.9	512	2	US-09-390-234-24	Sequence 24, Appl
887	59	4.9	1217	2	US-09-949-016-7454	Sequence 7454, Ap	960	58.5	4.9	512	2	US-09-603-311-24	Sequence 24, Appl
888	59	4.9	4150	2	US-09-428-517-2	Sequence 2, Appl	961	58.5	4.9	512	2	US-09-570-856B-30	Sequence 30, Appl
889	58.5	4.9	92	2	US-09-270-767-34271	Sequence 34271, A	962	58.5	4.9	548	2	US-09-508-418A-2	Sequence 2, Appl
890	58.5	4.9	124	2	US-09-902-540-16378	Sequence 49488, A	963	58.5	4.9	549	2	US-09-657-013-54	Sequence 54, Appl
891	58.5	4.9	138	2	US-09-252-991A-17424	Sequence 17424, A	964	58.5	4.9	549	2	US-09-949-016-8881	Sequence 8881, Ap
892	58.5	4.9	169	2	US-09-134-000C-5588	Sequence 5588, Ap	965	58.5	4.9	549	2	US-09-949-016-8882	Sequence 8882, Ap
893	58.5	4.9	180	2	US-09-949-016-6478	Sequence 6478, Ap	966	58.5	4.9	549	2	US-09-949-016-8883	Sequence 8883, Ap
894	58.5	4.9	182	2	US-09-489-039A-8631	Sequence 8631, Ap	967	58.5	4.9	549	2	US-09-949-016-8884	Sequence 8884, Ap
895	58.5	4.9	190	2	US-09-252-991A-20976	Sequence 20976, A	968	58.5	4.9	551	2	US-09-949-016-8885	Sequence 8885, A
896	58.5	4.9	218	1	US-09-698-705-12	Sequence 12, Appl	969	58.5	4.9	574	2	US-09-079-431B-6	Sequence 6, Appl
897	58.5	4.9	236	1	US-08-157-101A-5	Sequence 5, Appl	970	58.5	4.9	595	2	US-09-949-016-8871	Sequence 8871, Ap
898	58.5	4.9	250	2	US-09-540-236-2052	Sequence 2052, Ap	971	58.5	4.9	595	2	US-09-949-016-8872	Sequence 8872, Ap
899	58.5	4.9	259	2	US-09-934-060A-32	Sequence 32, Appl	972	58.5	4.9	595	2	US-09-949-016-8873	Sequence 8873, Ap
900	58.5	4.9	260	2	US-09-252-991A-29015	Sequence 29015, A	973	58.5	4.9	595	2	US-09-949-016-8874	Sequence 8874, Ap
901	58.5	4.9	261	2	US-09-310-463-34	Sequence 24007, A	974	58.5	4.9	595	2	US-09-949-016-8875	Sequence 8875, Ap
902	58.5	4.9	265	2	US-09-902-540-11498	Sequence 34, Appl	975	58.5	4.9	617	2	US-10-012-896-447	Sequence 947, Ap
903	58.5	4.9	280	2	US-09-543-681A-4460	Sequence 11498, A	976	58.5	4.9	617	2	US-10-094-944-14	Sequence 14, Appl
904	58.5	4.9	281	2	US-07-712-476A-5	Sequence 4460, Ap	977	58.5	4.9	617	2	US-10-144-678A-947	Sequence 947, Ap
905	58.5	4.9	282	1	US-07-712-476A-5	Sequence 5, Appl	978	58.5	4.9	617	3	US-09-272-835D-18	Sequence 18, Appl
906	58.5	4.9	292	2	US-09-583-110-3511	Sequence 3511, Ap	979	58.5	4.9	628	3	US-09-347-488-2	Sequence 2, Appl
907	58.5	4.9	296	1	US-09-310-463-34	Sequence 1, Appl	980	58.5	4.9	639	2	US-09-376-856-2	Sequence 2, Appl
908	58.5	4.9	299	2	US-09-107-433-4340	Sequence 30, Appl	981	58.5	4.9	662	2	US-09-107-532A-5999	Sequence 5999, Ap
909	58.5	4.9	300	2	US-09-949-016-5962	Sequence 5962, Ap	1001	58.5	4.9	721	2	US-09-390-234-20	Sequence 20, Appl
910	58.5	4.9	300	2	US-09-958-617A-12	Sequence 12, Appl	1002	58.5	4.9	721	2	US-09-603-311-20	Sequence 20, Appl
911	58.5	4.9	300	7	5340934-6	Patent No. 5340934	1003	58.5	4.9	731	2	US-09-252-991A-17180	Sequence 17180, A
912	58.5	4.9	311	2	US-09-710-279-2450	Sequence 2450, Ap	1004	58.5	4.9	731	2	US-09-149-934-4	Sequence 4, Appl
913	58.5	4.9	312	2	US-09-821-736-5	Sequence 5, Appl	1005	58.5	4.9	731	2	US-09-855-910-4	Sequence 33, Appl
914	58.5	4.9	312	2	US-09-134-253-1	Sequence 1, Appl	1006	58.5	4.9	804	2	US-09-538-092-33	Sequence 602, Ap
915	58.5	4.9	314	2	US-09-206-576-2	Sequence 2, Appl	1007	58.5	4.9	848	2	US-09-949-016-8421	Sequence 8421, Ap
916	58.5	4.9	314	2	US-09-538-092-896	Sequence 896, Ap	1008	58.5	4.9	997	2	US-09-949-016-8530	Sequence 8530, Ap
917	58.5	4.9	314	2	US-09-958-617A-14	Sequence 14, Appl	1009	58.5	4.9	1006	2	US-09-862-027-82	Sequence 82, Appl
918	58.5	4.9	314	2	US-09-830-807-29	Sequence 29, Appl	1010	58.5	4.9	1014	2	US-09-438-185A-566	Sequence 566, Ap
919	58.5	4.9	317	2	US-09-134-001C-3380	Sequence 3380, Ap	1011	58.5	4.9	1454	2	US-09-949-016-7599	Sequence 7599, Ap
920	58.5	4.9	318	2	US-09-902-540-14235	Sequence 10363, A	1012	58.5	4.9	1454	2	US-09-949-016-7600	Sequence 7600, Ap
921	58.5	4.9	324	2	US-09-949-016-10363	Sequence 2, Appl	1013	58.5	4.9	2216	2	US-09-902-540-12221	Sequence 12221, A
922	58.5	4.9	329	2	US-07-991-587A-2	Sequence 2, Appl	1014	58.5	4.9	2584	2	US-08-936-135-4	Sequence 4, Appl
923	58.5	4.9	333	1	US-08-309-985-2	Sequence 2, Appl	1015	58.5	4.9	79	1	US-08-428-596A-33	Sequence 33, Appl
924	58.5	4.9	333	1	US-09-995-938A-7	Sequence 7, Appl	1016	58.5	4.9	79	2	US-08-812-003-2	Sequence 2, Appl
925	58.5	4.9	336	2	US-10-094-749-2454	Sequence 2454, Ap	1017	58.5	4.9	81	1	US-09-543-681A-5343	Sequence 5343, Ap
926	58.5	4.9	340	2	US-09-608-917A-2	Sequence 2, Appl	1018	58.5	4.9	158	2	US-09-552-981A-24852	Sequence 24852, A
927	58.5	4.9	344	2	US-09-500-569-10	Sequence 10, Appl	1019	58.5	4.9	182	2	US-09-252-991A-25771	Sequence 25771, A
928	58.5	4.9	354	2	US-09-489-039A-8771	Sequence 8771, Ap	1020	58.5	4.9	190	2	US-09-107-532A-5701	Sequence 5701, Ap
929	58.5	4.9	354	2	US-08-624-601-8	Sequence 8, Appl	1021	58.5	4.9	190	2	US-09-583-110-3050	Sequence 3050, Ap
930	58.5	4.9	400	1	US-09-880-137-7	Sequence 7, Appl	1022	58.5	4.9	204	2	US-09-538-092-118	Sequence 118, Ap
931	58.5	4.9	411	2	US-09-402-532-2	Sequence 2, Appl	1023	58.5	4.9	224	2	US-09-107-433-4425	Sequence 4425, Ap
932	58.5	4.9	413	2	US-09-949-016-7602	Sequence 7602, Ap	1024	58.5	4.9	226	2	US-09-902-540-12858	Sequence 12858, A
933	58.5	4.9	414	2	US-09-949-016-7603	Sequence 7603, Ap	1025	58.5	4.9	234	2	US-09-328-352-7169	Sequence 7169, Ap
934	58.5	4.9	421	2	US-09-402-532-5	Sequence 5, Appl	1026	58.5	4.9	237	2	US-09-049-672A-2	Sequence 2, Appl
935	58.5	4.9	421	2	US-09-020-846-58	Sequence 68, Appl	1027	58.5	4.9	237	2	US-08-908-469-100	Sequence 100, Ap

1032	58	4.8	241	2	US-09-270-767-42375	Sequence 42375, A	1105	58	4.8	845	2	US-10-104-047-2309	Sequence 2309, Ap
1033	58	4.8	246	2	US-09-558-284-2	Sequence 2, Appli	1106	58	4.8	879	2	US-08-794-158-2	Sequence 2, Appli
1034	58	4.8	249	2	US-09-640-211A-1019	Sequence 1019, Ap	1107	58	4.8	912	2	US-09-902-540-16181	Sequence 16181, A
1035	58	4.8	251	2	US-09-489-039A-9020	Sequence 9020, Ap	1108	58	4.8	933	2	US-10-089-057A-22	Sequence 22, Appli
1036	58	4.8	262	2	US-09-270-767-57554	Sequence 57554, A	1109	58	4.8	966	2	US-09-328-952-6926	Sequence 626, Ap
1037	58	4.8	263	2	US-09-543-681A-5138	Sequence 5138, Ap	1110	58	4.8	986	2	US-09-657-931A-12	Sequence 12, Appli
1038	58	4.8	275	2	US-09-328-352-7552	Sequence 7552, Ap	1111	58	4.8	986	3	US-10-426-417-12	Sequence 12, Appli
1039	58	4.8	332	2	US-09-248-796A-15797	Sequence 15797, A	1112	58	4.8	1051	2	US-09-949-016-6190	Sequence 6190, Ap
1040	58	4.8	332	2	US-09-902-540-12515	Sequence 12515, A	1113	58	4.8	1054	2	US-09-626-301-2	Sequence 2, Appli
1041	58	4.8	337	1	US-08-861-464-12	Sequence 12, Appli	1114	58	4.8	1059	2	US-09-252-991A-28189	Sequence 28189, A
1042	58	4.8	337	1	US-08-396-001-12	Sequence 12, Appli	1115	58	4.8	1088	2	US-09-949-016-6644	Sequence 6644, Ap
1043	58	4.8	337	2	US-09-323-433A-12	Sequence 12, Appli	1116	58	4.8	1090	2	US-09-949-016-6644	Sequence 6644, Ap
1044	58	4.8	337	2	US-09-826-752-12	Sequence 12, Appli	1117	58	4.8	1090	2	US-09-949-016-6644	Sequence 6644, Ap
1045	58	4.8	349	2	US-09-343-011B-1	Sequence 1, Appli	1118	58	4.8	1090	2	US-09-949-016-6644	Sequence 6644, Ap
1046	58	4.8	351	2	US-08-324-483-2	Sequence 2, Appli	1119	58	4.8	1129	2	US-09-543-681A-8019	Sequence 8019, Ap
1047	58	4.8	361	2	US-09-270-767-37733	Sequence 37733, A	1120	58	4.8	1141	2	US-09-949-016-9459	Sequence 9459, Ap
1048	58	4.8	365	2	US-09-134-000C-4369	Sequence 4369, Ap	1121	58	4.8	1147	2	US-09-949-016-8616	Sequence 8616, Ap
1049	58	4.8	380	2	US-09-248-796A-17008	Sequence 17008, A	1122	58	4.8	1167	2	US-10-089-678-1	Sequence 1, Appli
1050	58	4.8	384	2	US-09-489-039A-13773	Sequence 13773, A	1123	58	4.8	1191	2	US-09-914-272A-1	Sequence 1, Appli
1051	58	4.8	394	2	US-09-252-991A-19674	Sequence 19674, A	1124	58	4.8	1224	2	US-10-638-333-1	Sequence 1, Appli
1052	58	4.8	402	2	US-09-270-767-42272	Sequence 42272, A	1125	58	4.8	1224	2	US-10-747-133A-1	Sequence 1, Appli
1053	58	4.8	432	2	US-09-857-612A-15	Sequence 15, Appli	1126	58	4.8	1246	2	US-09-125-028-2	Sequence 2, Appli
1054	58	4.8	433	2	US-09-673-899-2	Sequence 2, Appli	1127	58	4.8	1258	2	US-08-894-344C-2	Sequence 2, Appli
1055	58	4.8	433	2	US-09-673-899-4	Sequence 4, Appli	1128	58	4.8	1258	2	US-09-678-023A-2	Sequence 2, Appli
1056	58	4.8	433	2	US-09-673-899-6	Sequence 6, Appli	1129	58	4.8	1258	2	US-09-919-497-70	Sequence 70, Appli
1057	58	4.8	438	2	US-09-252-991A-19012	Sequence 19012, A	1130	58	4.8	1258	2	US-09-144-085-1	Sequence 1, Appli
1058	58	4.8	438	2	US-09-538-092-62	Sequence 62, Appli	1131	57.5	4.8	5087	2	US-09-248-796A-24014	Sequence 24014, A
1059	58	4.8	443	2	US-09-540-236-3386	Sequence 3386, Ap	1132	57.5	4.8	132	1	US-08-616-392C-10	Sequence 10, Appli
1060	58	4.8	457	1	US-08-264-101-4	Sequence 4, Appli	1133	57.5	4.8	124	2	US-09-456-090A-52	Sequence 52, Appli
1061	58	4.8	457	1	US-08-765-243-3	Sequence 3, Appli	1134	57.5	4.8	224	2	US-09-453-234-52	Sequence 52, Appli
1062	58	4.8	457	5	PCT-US95-07295-4	Sequence 4, Appli	1135	57.5	4.8	226	2	US-09-456-090A-42	Sequence 42, Appli
1063	58	4.8	458	1	US-08-112-817C-2	Sequence 2, Appli	1136	57.5	4.8	226	2	US-09-456-090A-80	Sequence 80, Appli
1064	58	4.8	458	2	US-09-694-519-5	Sequence 5, Appli	1137	57.5	4.8	226	2	US-09-453-234-42	Sequence 42, Appli
1065	58	4.8	458	2	US-09-694-519-7	Sequence 7, Appli	1138	57.5	4.8	226	2	US-09-453-234-80	Sequence 80, Appli
1066	58	4.8	485	2	US-09-270-767-45701	Sequence 45701, A	1139	57.5	4.8	229	2	US-09-902-540-10214	Sequence 10214, A
1067	58	4.8	491	2	US-10-011-125A-2	Sequence 2, Appli	1140	57.5	4.8	243	2	US-09-831-683B-8	Sequence 8, Appli
1068	58	4.8	496	2	US-09-082-092-10	Sequence 10, Appli	1141	57.5	4.8	243	2	US-09-270-767-62302	Sequence 62302, A
1069	58	4.8	496	2	US-09-288-282A-46	Sequence 46, Appli	1142	57.5	4.8	255	2	US-09-328-352-1865	Sequence 1865, A
1070	58	4.8	496	2	US-09-885-722A-10	Sequence 10, Appli	1143	57.5	4.8	257	2	US-09-248-796A-21037	Sequence 21037, A
1071	58	4.8	509	2	US-09-489-039A-10350	Sequence 10350, A	1144	57.5	4.8	268	2	US-09-270-767-44519	Sequence 44519, A
1072	58	4.8	524	2	US-10-101-464A-943	Sequence 943, App	1145	57.5	4.8	273	2	US-09-328-352-6167	Sequence 6167, Ap
1073	58	4.8	536	2	US-09-902-540-13091	Sequence 13091, A	1146	57.5	4.8	292	2	US-09-949-016-7084	Sequence 7084, Ap
1074	58	4.8	538	2	US-09-248-796A-17662	Sequence 17662, A	1147	57.5	4.8	294	2	US-09-583-110-3189	Sequence 3189, Ap
1075	58	4.8	541	2	US-09-583-110-2859	Sequence 2859, Ap	1148	57.5	4.8	296	2	US-10-045-545A-3	Sequence 3, Appli
1076	58	4.8	552	1	US-07-999-280A-24	Sequence 24, Appli	1149	57.5	4.8	315	2	US-09-949-016-9940	Sequence 9940, Ap
1077	58	4.8	552	1	US-08-426-279-24	Sequence 24, Appli	1150	57.5	4.8	333	2	US-09-248-796A-15432	Sequence 15432, A
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1079	58	4.8	552	2	US-08-426-570-24	Sequence 24, Appli	1152	57.5	4.8	335	2	US-08-442-108B-23	Sequence 23, Appli
1080	58	4.8	552	2	US-08-426-876-24	Sequence 24, Appli	1153	57.5	4.8	335	2	US-09-134-000C-4450	Sequence 4450, Ap
1081	58	4.8	552	2	US-08-426-243-24	Sequence 24, Appli	1154	57.5	4.8	335	2	US-09-949-002-346	Sequence 346, App
1082	58	4.8	552	2	US-09-107-433-3006	Sequence 3006, Ap	1155	57.5	4.8	336	2	US-09-902-540-15626	Sequence 15626, A
1083	58	4.8	556	2	US-09-107-433-3006	Sequence 3006, Ap	1156	57.5	4.8	340	2	US-10-094-749-2147	Sequence 2147, Ap
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1085	58	4.8	595	2	US-09-252-991A-25815	Sequence 25815, A	1158	57.5	4.8	362	2	US-09-479-040-11	Sequence 11, Appli
1086	58	4.8	630	2	US-10-003-392-16	Sequence 16, Appli	1159	57.5	4.8	382	2	US-09-880-137-8	Sequence 8, Appli
1087	58	4.8	642	2	US-09-540-236-2216	Sequence 2216, Ap	1160	57.5	4.8	382	2	US-10-210-115-33	Sequence 33, Appli
1088	58	4.8	663	2	US-09-949-002-306	Sequence 306, Appli	1161	57.5	4.8	384	2	US-08-469-039A-9127	Sequence 9127, Ap
1089	58	4.8	679	2	US-09-050-516-42	Sequence 42, Appli	1162	57.5	4.8	391	1	US-09-270-767-46691	Sequence 46691, A
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1091	58	4.8	680	2	US-09-949-002-500	Sequence 500, App	1164	57.5	4.8	391	1	US-08-353-476-115	Sequence 115, App
1092	58	4.8	729	2	US-09-328-352-7603	Sequence 7603, Ap	1165	57.5	4.8	397	2	US-09-433-248A-2	Sequence 2, Appli
1093	58	4.8	735	1	US-08-765-243-6	Sequence 6, Appli	1166	57.5	4.8	409	2	US-09-880-137-4	Sequence 4, Appli
1094	58	4.8	735	2	PCT-US95-017295-6	Sequence 6, Appli	1167	57.5	4.8	410	2	US-09-993-931-2	Sequence 2, Appli
1095	58	4.8	736	2	US-09-949-016-6807	Sequence 6807, Ap	1168	57.5	4.8	415	2	US-09-543-681A-6330	Sequence 6330, Ap
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1097	58	4.8	769	2	US-09-489-039A-12201	Sequence 12201, A	1170	57.5	4.8	417	2	US-09-949-002-527	Sequence 527, App
1098	58	4.8	773	2	US-09-270-767-33141	Sequence 33141, A	1171	57.5	4.8	426	2	US-09-252-991A-31959	Sequence 31959, A
1099	58	4.8	773	2	US-09-270-767-46358	Sequence 46358, A	1172	57.5	4.8	432	2	US-09-198-452A-41	Sequence 41, Appli
1100	58	4.8	789	2	US-10-144-198-18	Sequence 18, Appli	1173	57.5	4.8	435	2	US-09-866-061-2	Sequence 2, Appli
1101	58	4.8	796	2	US-10-029-180-52	Sequence 52, Appli	1174	57.5	4.8	445	2	US-09-107-532A-5087	Sequence 5087, Ap
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1104	58	4.8	840	2	US-10-030-330-5	Sequence 5, Appli	1177	57.5	4.8	456	2	US-09-973-424A-56	Sequence 56, Appli

1178	57.5	4.8	458	2	US-09-352-159-9	Sequence 9, Appli	1251	57.5	4.8	596	2	US-09-005-051-25	Sequence 25, Appl
1179	57.5	4.8	458	2	US-09-352-168-9	Sequence 9, Appli	1252	57.5	4.8	596	2	US-09-403-942F-25	Sequence 25, Appl
1180	57.5	4.8	458	2	US-09-771-045B-9	Sequence 9, Appli	1253	57.5	4.8	600	2	US-09-352-159-33	Sequence 23, Appl
1181	57.5	4.8	458	2	US-09-770-564A-9	Sequence 9, Appli	1254	57.5	4.8	600	2	US-09-352-159-36	Sequence 36, Appl
1182	57.5	4.8	458	2	US-09-658-835C-9	Sequence 9, Appli	1255	57.5	4.8	600	2	US-09-352-159-18	Sequence 38, Appl
1183	57.5	4.8	458	2	US-10-624-619A-9	Sequence 9, Appli	1256	57.5	4.8	600	2	US-09-352-168-23	Sequence 23, Appl
1184	57.5	4.8	460	3	US-09-958-359-26	Sequence 26, Appli	1257	57.5	4.8	600	2	US-09-771-045B-23	Sequence 23, Appl
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1186	57.5	4.8	462	2	US-09-352-159-8	Sequence 8, Appli	1259	57.5	4.8	600	2	US-09-771-045B-36	Sequence 36, Appl
1187	57.5	4.8	462	2	US-09-352-168-6	Sequence 6, Appli	1260	57.5	4.8	600	2	US-09-771-045B-38	Sequence 38, Appl
1188	57.5	4.8	462	2	US-09-352-168-8	Sequence 8, Appli	1261	57.5	4.8	600	2	US-09-771-045B-47	Sequence 47, Appl
1189	57.5	4.8	462	2	US-09-771-045B-6	Sequence 6, Appli	1262	57.5	4.8	600	2	US-09-882-694B-21	Sequence 21, Appl
1190	57.5	4.8	462	2	US-09-771-045B-8	Sequence 8, Appli	1263	57.5	4.8	600	2	US-09-882-694B-23	Sequence 23, Appl
1191	57.5	4.8	462	2	US-09-882-694B-17	Sequence 17, Appli	1264	57.5	4.8	600	2	US-09-882-694B-25	Sequence 25, Appl
1192	57.5	4.8	462	2	US-09-770-564A-6	Sequence 6, Appli	1265	57.5	4.8	600	2	US-09-882-694B-27	Sequence 27, Appl
1193	57.5	4.8	462	2	US-09-770-564A-8	Sequence 8, Appli	1266	57.5	4.8	600	2	US-09-770-564A-23	Sequence 23, Appl
1194	57.5	4.8	462	2	US-09-658-835C-6	Sequence 6, Appli	1267	57.5	4.8	600	2	US-09-658-835C-23	Sequence 23, Appl
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1198	57.5	4.8	463	2	US-09-352-159-11	Sequence 11, Appli	1271	57.5	4.8	600	2	US-09-658-835C-47	Sequence 47, Appl
1199	57.5	4.8	463	2	US-09-352-168-11	Sequence 11, Appli	1272	57.5	4.8	600	2	US-10-624-619A-23	Sequence 23, Appl
1200	57.5	4.8	463	2	US-09-771-045B-11	Sequence 11, Appli	1273	57.5	4.8	635	2	US-09-142-623-1	Sequence 1, Appli
1201	57.5	4.8	463	2	US-09-771-045B-49	Sequence 49, Appli	1274	57.5	4.8	648	1	US-08-487-890A-109	Sequence 109, App
1202	57.5	4.8	463	2	US-09-771-045B-51	Sequence 51, Appli	1275	57.5	4.8	648	1	US-08-478-435-109	Sequence 109, App
1203	57.5	4.8	463	2	US-09-771-045B-53	Sequence 53, Appli	1276	57.5	4.8	648	1	US-08-337-483-109	Sequence 109, App
1204	57.5	4.8	463	2	US-09-882-694B-19	Sequence 19, Appli	1277	57.5	4.8	648	1	US-08-478-435-109	Sequence 109, App
1205	57.5	4.8	463	2	US-09-770-564A-11	Sequence 11, Appli	1278	57.5	4.8	648	2	US-08-478-435-109	Sequence 109, App
1206	57.5	4.8	463	2	US-09-658-835C-11	Sequence 11, Appli	1279	57.5	4.8	648	2	US-08-483-577A-109	Sequence 109, App
1207	57.5	4.8	463	2	US-09-658-835C-49	Sequence 49, Appli	1280	57.5	4.8	648	2	US-08-897-438-109	Sequence 109, App
1208	57.5	4.8	463	2	US-09-658-835C-53	Sequence 53, Appli	1281	57.5	4.8	648	2	US-08-637-654-109	Sequence 109, App
1209	57.5	4.8	463	2	US-09-658-835C-51	Sequence 51, Appli	1282	57.5	4.8	648	2	US-08-649-518-109	Sequence 109, App
1210	57.5	4.8	463	2	US-10-624-619A-11	Sequence 11, Appli	1283	57.5	4.8	661	2	US-10-104-047-2645	Sequence 2645, Ap
1211	57.5	4.8	465	2	US-09-801-052-2	Sequence 1, Appli	1284	57.5	4.8	660	2	US-08-761-136-1	Sequence 1, Appli
1212	57.5	4.8	465	2	US-09-252-991A-18003	Sequence 18003, A	1285	57.5	4.8	660	2	US-09-576-967-1	Sequence 1, Appli
1213	57.5	4.8	465	2	US-10-020-121-2	Sequence 2, Appli	1286	57.5	4.8	660	2	US-09-538-092-1165	Sequence 1165, Ap
1214	57.5	4.8	465	2	US-09-949-016-10240	Sequence 10240, A	1287	57.5	4.8	660	2	US-10-219-541-1	Sequence 1, Appli
1215	57.5	4.8	465	2	US-10-636-579-2	Sequence 2, Appli	1288	57.5	4.8	660	2	US-09-949-016-6637	Sequence 6637, Ap
1216	57.5	4.8	466	2	US-09-720-318A-8	Sequence 8, Appli	1289	57.5	4.8	662	2	US-09-352-159-19	Sequence 19, Appl
1217	57.5	4.8	472	2	US-09-108-020-12	Sequence 12, Appli	1290	57.5	4.8	662	2	US-09-352-168-11	Sequence 11, Appl
1218	57.5	4.8	472	2	US-09-685-286-12	Sequence 12, Appli	1291	57.5	4.8	662	2	US-07-757-142D-6	Sequence 6, Appli
1219	57.5	4.8	476	2	US-09-078-173A-2	Sequence 2, Appli	1292	57.5	4.8	662	2	US-09-461-657B-6	Sequence 6, Appli
1220	57.5	4.8	476	2	US-10-042-991-2	Sequence 2, Appli	1293	57.5	4.8	662	2	US-09-771-045B-19	Sequence 19, Appl
1221	57.5	4.8	477	2	US-09-252-991A-17093	Sequence 17093, A	1294	57.5	4.8	662	2	US-09-770-564A-19	Sequence 19, Appl
1222	57.5	4.8	480	2	US-10-104-047-2873	Sequence 2873, Ap	1295	57.5	4.8	662	2	US-09-658-835C-19	Sequence 19, Appl
1223	57.5	4.8	480	2	US-10-042-991-3	Sequence 3, Appli	1296	57.5	4.8	662	2	US-09-658-835C-19	Sequence 19, Appl
1224	57.5	4.8	483	2	US-09-078-173A-4	Sequence 4, Appli	1297	57.5	4.8	662	2	US-10-624-619A-19	Sequence 19, Appl
1225	57.5	4.8	483	2	US-10-042-991-4	Sequence 4, Appli	1298	57.5	4.8	708	2	US-09-107-532A-3930	Sequence 3930, Ap
1226	57.5	4.8	486	2	US-09-134-000C-4392	Sequence 4392, Ap	1299	57.5	4.8	712	2	US-09-949-016-6638	Sequence 6638, Ap
1227	57.5	4.8	487	2	US-09-352-159-21	Sequence 21, Appli	1300	57.5	4.8	712	2	US-09-949-016-7340	Sequence 7340, Ap
1228	57.5	4.8	487	2	US-09-352-168-21	Sequence 21, Appli	1301	57.5	4.8	726	2	US-09-129-075-4	Sequence 7341, Ap
1229	57.5	4.8	487	2	US-09-352-168-21	Sequence 21, Appli	1302	57.5	4.8	726	2	US-09-129-075-4	Sequence 7341, Ap
1230	57.5	4.8	487	2	US-09-771-045B-21	Sequence 21, Appli	1303	57.5	4.8	726	2	US-09-346-237-3	Sequence 3, Appli
1231	57.5	4.8	487	2	US-09-770-564A-21	Sequence 21, Appli	1304	57.5	4.8	726	2	US-09-544-123-4	Sequence 13, Appl
1232	57.5	4.8	487	2	US-09-658-835C-21	Sequence 21, Appli	1305	57.5	4.8	801	2	US-09-358-755-1	Sequence 4, Appli
1233	57.5	4.8	488	2	US-10-624-619A-21	Sequence 21, Appli	1306	57.5	4.8	808	1	US-08-471-251A-2	Sequence 1, Appli
1234	57.5	4.8	488	2	US-09-078-173A-6	Sequence 6, Appli	1307	57.5	4.8	826	1	US-09-564-805-2	Sequence 2, Appli
1235	57.5	4.8	488	2	US-09-537-357-38	Sequence 38, Appli	1308	57.5	4.8	826	2	US-09-564-805-2	Sequence 2, Appli
1236	57.5	4.8	488	2	US-10-042-991-6	Sequence 6, Appli	1309	57.5	4.8	826	2	US-09-949-016-9796	Sequence 9796, Ap
1237	57.5	4.8	511	1	US-09-438-185A-475	Sequence 475, App	1310	57.5	4.8	829	2	US-09-352-159-33	Sequence 33, Appl
1238	57.5	4.8	535	1	US-08-007-107-2	Sequence 2, Appli	1311	57.5	4.8	829	2	US-09-352-159-33	Sequence 33, Appl
1239	57.5	4.8	548	2	US-09-438-185A-25	Sequence 25, Appli	1312	57.5	4.8	829	2	US-09-352-168-33	Sequence 33, Appl
1240	57.5	4.8	554	2	US-09-352-159-17	Sequence 17, Appli	1313	57.5	4.8	829	2	US-09-770-564A-33	Sequence 33, Appl
1241	57.5	4.8	554	2	US-09-352-168-17	Sequence 17, Appli	1314	57.5	4.8	829	2	US-10-624-619A-33	Sequence 33, Appl
1242	57.5	4.8	554	2	US-09-771-045B-17	Sequence 17, Appli	1315	57.5	4.8	829	2	US-09-489-039A-12501	Sequence 12501, A
1243	57.5	4.8	554	2	US-09-770-564A-17	Sequence 17, Appli	1316	57.5	4.8	871	2	US-09-252-991A-33057	Sequence 33057, A
1244	57.5	4.8	554	2	US-09-658-835C-17	Sequence 17, Appli	1317	57.5	4.8	903	2	US-10-169-048-42	Sequence 42, Appl
1245	57.5	4.8	554	2	US-10-624-619A-17	Sequence 17, Appli	1318	57.5	4.8	903	2	US-09-252-991A-1937	Sequence 1937, A
1246	57.5	4.8	570	2	US-08-747-321B-54	Sequence 54, Appli	1319	57.5	4.8	991	2	US-09-352-168-27	Sequence 27, Appl
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1248	57.5	4.8	570	2	US-09-403-942F-54	Sequence 54, Appli	1321	57.5	4.8	991	2	US-09-771-045B-27	Sequence 27, Appl
1249	57.5	4.8	592	2	US-09-252-991A-20435	Sequence 20435, A	1322	57.5	4.8	991	2	US-09-658-835C-27	Sequence 27, Appl
1250	57.5	4.8	596	2	US-08-747-221B-25	Sequence 25, Appli	1323	57.5	4.8	991	2	US-10-624-619A-27	Sequence 27, Appl

1324	57.5	4.8	1000	2	US-09-352-159-25	Sequence 25, Appl	1397	57	4.7	338	2	US-09-328-352-7427	Sequence 7427, Ap
1325	57.5	4.8	1000	2	US-09-352-168-25	Sequence 25, Appl	1398	57	4.7	337	2	US-09-710-279-3326	Sequence 3326, Ap
1326	57.5	4.8	1000	2	US-09-771-045B-25	Sequence 25, Appl	1399	57	4.7	354	2	US-09-338-907-74	Sequence 74, Appl
1327	57.5	4.8	1000	2	US-09-770-564A-25	Sequence 25, Appl	1400	57	4.7	354	2	US-09-218-207-74	Sequence 74, Appl
1328	57.5	4.8	1000	2	US-09-658-835C-25	Sequence 25, Appl	1401	57	4.7	353	2	US-09-800-729-111	Sequence 111, Appl
1329	57.5	4.8	1000	2	US-10-624-619A-25	Sequence 25, Appl	1402	57	4.7	355	2	US-09-248-796A-20986	Sequence 20986, A
1330	57.5	4.8	1073	2	US-10-210-115-20	Sequence 20, Appl	1403	57	4.7	366	2	US-09-599-1608-89	Sequence 89, Appl
1331	57.5	4.8	1138	2	US-09-252-991A-20291	Sequence 20291, A	1404	57	4.7	366	2	US-09-599-1608-89	Sequence 89, Appl
1332	57.5	4.8	1165	2	US-09-949-016-6874	Sequence 6874, A	1405	57	4.7	371	2	US-09-800-729-212	Sequence 212, Ap
1333	57.5	4.8	1165	2	US-09-949-016-11392	Sequence 11392, A	1406	57	4.7	371	2	US-09-134-001C-4502	Sequence 4502, Ap
1334	57.5	4.8	1196	2	US-09-352-159-31	Sequence 31, Appl	1418	57	4.7	388	2	US-09-252-991A-30845	Sequence 30845, A
1335	57.5	4.8	1196	2	US-09-352-168-31	Sequence 31, Appl	1419	57	4.7	391	2	US-09-248-796A-20335	Sequence 20335, A
1336	57.5	4.8	1196	2	US-09-771-045B-31	Sequence 31, Appl	1420	57	4.7	396	2	US-09-134-000C-4226	Sequence 4226, Ap
1337	57.5	4.8	1196	2	US-09-770-564A-31	Sequence 31, Appl	1421	57	4.7	397	2	US-09-090-044B-9	Sequence 9, Appl
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ALIGNMENTS

RESULT 1

Sequence 61, Application US/10036041
Patent No. 6984519
GENERAL INFORMATION:
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gunney, Austin L.
APPLICANT: Pan, James
APPLICANT: Stewart, Timothy A.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3030R1C8
CURRENT APPLICATION NUMBER: US/10/036, 041
CURRENT FILING DATE: 2001-12-26
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; PRIOR APPLICATION NUMBER: PCT/US01/21066
; PRIOR FILING DATE: 2001-06-29
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; PRIOR FILING DATE: 2001-07-09
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; Patent No. 6063767
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Hillman, Jennifer
; APPLICANT: Corley, Neil
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: HUMAN PHOSPHOLIPID BINDING PROTEINS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
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; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
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; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/958,820
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0379 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
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; LENGTH: 227 amino acids
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; CLONE: 3126479
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; Sequence 8, Application US/09621976
; Patent No. 663063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET 054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent .pm
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; Sequence 8, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duciart, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59, US2, REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 8
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -22...-1
; OTHER INFORMATION: score 8.5
; OTHER INFORMATION: seq AALLILGLMMVVTG/DE
US-09-513-999C-8

Query Match 97.8%; Score 1177; DB 2; Length 227;
Best Local Similarity 98.6%; Pred. No. 2,1e-124;
Matches 218; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGMTMLVTTAALLGLMMVVTGDEDENSPCAHALLBEDTLFCGGLVFFYELGNIGCKV 60
DB 1 MGMTMLVTTAALLGLMMVVTGDEDENSPCAHALLBEDTLFCGGLVFFYELGNIGCKV 60
QY 61 VPDCNNYRQKITSMEPIVKFPGAVDGTATYILVWVDPDAPSRAPRORFMRHMLVTDIKG 120
DB 61 VPDCNNYRQKITSMEPIVKFPGAVDGTATYILVWVDPDAPSRAPRORFMRHMLVTDIKG 120
QY 121 ADLKKGKIQOGLSAYQAPSPPAHSGFHRQYQFFVYLOEGKVISLLPKENKTRGSKMDRF 180
DB 121 ADLKKGKIQOGLSAYQAPSPPAHSGFHRQYQFFVYLOEGKVISLLPKENKTRGSKMDRF 180
QY 181 LNRPHLGEPEASTQFMNTQYQDSPTLQAPRGASEPCHKTR 221
DB 181 LNRPHLGEPEASTQFMNTQYQDSPTLQAPRGASEPCHKTR 221

RESULT 5
US-09-471-276-8
; Sequence 8, Application US/09471276
; Patent No. 6822072
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duciart, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6822072
; FILE REFERENCE: GENSET.025CPI
; CURRENT APPLICATION NUMBER: US/09/471,276
; CURRENT FILING DATE: 1999-12-21
; EARLIER APPLICATION NUMBER: 09/057,719
; EARLIER FILING DATE: 1998-04-09
; EARLIER APPLICATION NUMBER: 09/069,047
; EARLIER FILING DATE: 1998-04-28
; EARLIER APPLICATION NUMBER: PCT/IB99/00712
; EARLIER FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 1622
; SOFTWARE: Patent.pm
; SEQ ID NO 8
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: SIGNAL
; LOCATION: -22...-1
; OTHER INFORMATION: score 8.5
; OTHER INFORMATION: seq AALLILGLMMVVTG/DE
US-09-471-276-8

Query Match 97.8%; Score 1177; DB 2; Length 227;
Best Local Similarity 98.6%; Pred. No. 2,1e-124;
Matches 218; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGMTMLVTTAALLGLMMVVTGDEDENSPCAHALLBEDTLFCGGLVFFYELGNIGCKV 60
DB 1 MGMTMLVTTAALLGLMMVVTGDEDENSPCAHALLBEDTLFCGGLVFFYELGNIGCKV 60
QY 61 VPDCNNYRQKITSMEPIVKFPGAVDGTATYILVWVDPDAPSRAPRORFMRHMLVTDIKG 120
DB 61 VPDCNNYRQKITSMEPIVKFPGAVDGTATYILVWVDPDAPSRAPRORFMRHMLVTDIKG 120
QY 121 ADLKKGKIQOGLSAYQAPSPPAHSGFHRQYQFFVYLOEGKVISLLPKENKTRGSKMDRF 180
DB 121 ADLKKGKIQOGLSAYQAPSPPAHSGFHRQYQFFVYLOEGKVISLLPKENKTRGSKMDRF 180
QY 181 LNRPHLGEPEASTQFMNTQYQDSPTLQAPRGASEPCHKTR 221
DB 181 LNRPHLGEPEASTQFMNTQYQDSPTLQAPRGASEPCHKTR 221

RESULT 6
US-09-492-308A-7
; Sequence 7, Application US/09492308A
; Patent No. 6573430
; GENERAL INFORMATION:
; APPLICANT: Bradley, DJ
; APPLICANT: Coen, RS
; APPLICANT: Carpenter, R
; TITLE OF INVENTION: Flowering genes
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye PC
; STREET: 8th Floor, 1100 No. 6573430th Giebe Road
; CITY: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/492,308A
; FILING DATE: 27-Jan-2000
; CLASSIFICATION: 435 (Preliminary)
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/043,029
; FILING DATE: 13-MAR-1998
; APPLICATION NUMBER: PCT/GB96/02276
; FILING DATE: 13-SEP-1996
; APPLICATION NUMBER: GB 9518731.6
; FILING DATE: 13-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Mary J. Wilson
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 620-93
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
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US-09-492-308A-7

Query Match 19.6%; Score 235.5; DB 2; Length 187;
Best Local Similarity 36.5%; Pred. No. 2.6e-18;
Matches 57; Conservative 20; Mismatches 60; Indels 19; Gaps 5;

QY 52 ELGNIGCKVVDCCNNYRQKITSWMEPIVKFPGAVDGAATYILVMDPDPAFSPRAEPRORFWR 111
DB 36 ELGKV--LPTQVNMNRPSSISW-----DGLDPGKLYTLVLPDPAFSPKDKPFREWH 85

QY 112 HMLVTDIKGADLKKKGIQGEISAYQAPSPHSGFHRQFVYLOEGKVIS---LLPK 167
DB 86 HFLVNMKNDISSGTV---LSEVSGSPKDTGLHRYVWLVEQEPPLNCDDEPILSNK 141

QY 168 ENKTRGSMKMDRFLNRFHLGEPPEASTQFTMTQNYODS 203
DB 142 SGDNRGKFKVESFRKRYHLGAPVAGTCFOAE-WDDS 176

RESULT 7

US-09-208-718-6
Sequence 6, Application US/09208718
Patent No. 6063767
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer
APPLICANT: Corley, Neil
APPLICANT: Shah, Purvi
TITLE OF INVENTION: HUMAN PHOSPHOLIPID BINDING PROTEINS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESS: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/208,718
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/958,820
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0379 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 152 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: Genbank
CLONE: 1143527
US-09-208-718-6

Query Match 19.2%; Score 231; DB 2; Length 152;
Best Local Similarity 37.0%; Pred. No. 6.3e-18;
Matches 54; Conservative 18; Mismatches 58; Indels 16; Gaps 5;

QY 55 NIGCKVVDCCNNYRQKITSWMEPIVKFPGAVDGAATYILVMDPDPAFSPRAEPRORFWRHW 113

DB 20 NLGNELPTQVKNQPTKV-SW-----DAEPGALTYLWMDPDPAFSPRAEPRORFWR 70

QY 114 LVTDIKGADLKKKGIQGEISAYQAPSPHSGFHRQFVYLOEGKVISLLPKENTRG 173
DB 71 LIINISQANVSSGTV---LSDYISGSPKDTGLHRYVWLVEQEPPLNCDDEPILSNK 124

QY 174 SWKMDRFLNRFHLGEPPEASTQFTMTQ 199
DB 125 NFKVMDPANKHLDGNPVAGNFOAKH 150

RESULT 8

US-10-362-642B-1
Sequence 1, Application US/10362642B
Patent No. 7029677
GENERAL INFORMATION:
APPLICANT: Hugo Albrecht
APPLICANT: Ulrich Hengst
APPLICANT: Denis Monard
TITLE OF INVENTION: Methods and Reagents for Protease Inhibition
FILE REFERENCE: 1-31577A
CURRENT APPLICATION NUMBER: US/10/362,642B
CURRENT FILING DATE: 2003-02-24
PRIOR APPLICATION NUMBER: GB 0021497.3
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 187
TYPE: PRT
ORGANISM: Mus musculus
US-10-362-642B-1

Query Match 18.7%; Score 225; DB 3; Length 187;
Best Local Similarity 35.1%; Pred. No. 4.1e-17;
Matches 53; Conservative 22; Mismatches 58; Indels 18; Gaps 4;

QY 52 ELGNIGCKVVDCCNNYRQKITSWMEPIVKFPGAVDGAATYILVMDPDPAFSPRAEPRORFWR 111
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QY 112 HMLVTDIKGADLKKKGIQGEISAYQAPSPHSGFHRQFVYLOEGKVIS---LLPK 167
DB 86 HFLVNMKNDISSGTV---LSDYVSGSPKDTGLHRYVWLVEQEPPLNCDDEPILSNK 141

QY 168 ENKTRGSMKMDRFLNRFHLGEPPEASTQFTMTQ 198
DB 142 SGDNRGKFKVETFRKRYNLGAPVAGTCFOAE 172

RESULT 9

US-09-654-281B-4
Sequence 4, Application US/09654281B
Patent No. 6864224
GENERAL INFORMATION:
APPLICANT: Sedivy, John
APPLICANT: Kolch, Walter
APPLICANT: Yeung, Kam Chi
TITLE OF INVENTION: Kinase Inhibitors and Methods of Use in Screening Assays and Mod
FILE REFERENCE: 3564/1010
CURRENT APPLICATION NUMBER: US/09/654,281B
CURRENT FILING DATE: 2000-09-01
PRIOR APPLICATION NUMBER: 60/151,992
PRIOR FILING DATE: 1999-09-01
NUMBER OF SEQ ID NOS: 11
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 187
TYPE: PRT
ORGANISM: Drosophila
US-09-654-281B-4

2

Db 141 KSGDNRGKFKVASFRRKXHLGAPVAGTGFQAE-WDDS 176

RESULT 15
US-08-403-378B-15
Sequence 15, Application US/08403378B
Patent No. 5759991
GENERAL INFORMATION:
APPLICANT: TOHDOH, NAOKI
APPLICANT: TOJO, SHIN-ICHIRO
APPLICANT: KOJIMA, SHIN-ICHI
APPLICANT: Ueki, YASUYUKI
APPLICANT: NISHIHARA, TOSHIO
APPLICANT: FUKUSHIMA, NOBUYUKI
APPLICANT: IRIE, TSUNEMASA
APPLICANT: OMO, KEIICHI
APPLICANT: AGUI, HIDEO
APPLICANT: OIYKA, KOSEI
TITLE OF INVENTION: NEUTROPHIC PEPTIDE DERIVATIVES
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: SUGHRUE, MION, ZINN, MACPEAK & SEAS
STREET: 2100 PENNSYLVANIA AVENUE, NW
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20037-3202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/403,378B
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 3-124688
FILING DATE: 27-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 1-080398
FILING DATE: 30-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 1-280590
FILING DATE: 27-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 1-333241
FILING DATE: 21-DEC-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-243003
FILING DATE: 12-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/758,043
FILING DATE: 12-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/873,764
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP93/01214
FILING DATE: 27-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: BIGGART, WADELL A
REGISTRATION NUMBER: 24,861
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)293-7060
TELEFAX: (202)293-7860
TELEX: 6491103
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 187 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-403-378B-15

Query Match 17.0%; Score 205; DB 1; Length 187;
Best Local Similarity 33.1%; Pred. No. 7,3e-15;
Matches 50; Conservative 21; Mismatches 62; Indels 18; Gaps 4;

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Db 36 ELGKV--LTPTQVKRPTISW-----DGLDSGLYTLVLPDPAPSRKDPKREWH 85
QY 112 HMLVTDIKGADLKKKIKGGELSAVQAPSPPAISGFFRRYQFFVYLDGKXYS----LLPK 167
Db 86 HFLVNNKKGNDISSGTV---LSDYVGGSPKGTGLHRVYWLVEODRPLKCEPILSNR 141
QY 168 ENKTRGSKMDRFLNRFHLGEPPEASTQFMTO 198
Db 142 SGDHRGKFKVASFRKXELRAPVAGTGYQAE 172

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Job time : 74 secs

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OM protein - protein search, using sw model

Run on: November 19, 2006, 04:39:21 ; Search time 179 Seconds
(without alignments)
577.078 Million cell updates/sec

Perfect score: 1204
Sequence: 1 MGMTMLVTAALLGLMNV.....PTLQAPRGRASEPKTKRQR 223

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Minimum DB seq length: 0

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Listing first 1500 summaries

Database : Published Applications AA Main:*

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2: /EMC_Celerra_SIDS3/prodata/2/pubppaa/us08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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53	1204	100.0	223	4	US-10-223-085-306
59	1204	100.0	223	4	US-10-219-065-232
85	1204	100.0	223	4	US-10-223-084-306
86	1204	100.0	223	4	US-10-223-088-306
87	1204	100.0	223	4	US-10-223-090-306
92	1204	100.0	223	4	US-10-223-087-306
93	1204	100.0	223	4	US-10-223-083-306
96	1204	100.0	223	4	US-10-223-089-306
99	1204	100.0	223	4	US-10-223-081-306
118	1204	100.0	223	4	US-10-223-082-306
119	1204	100.0	223	4	US-10-305-654-306
122	1204	100.0	223	4	US-10-081-056-306
127	1204	100.0	223	5	US-10-884-091-61
134	1200	99.7	223	4	US-10-291-265-245
135	1200	99.7	223	6	US-11-000-463-245
136	1181	98.1	227	3	US-09-879-401-3
137	1178	97.8	227	4	US-10-403-142-128
138	1177	97.8	227	3	US-09-978-360A-540
139	1177	97.8	227	3	US-09-978-360A-540
140	1177	97.8	227	5	US-10-926-683-8
141	1174	97.8	225	4	US-10-403-676-62
142	1174	97.5	227	4	US-10-403-142-130
143	1173	97.4	227	4	US-10-003-152-2
144	1173	97.4	227	4	US-10-002-050-2
145	1173	97.4	227	4	US-10-002-304-2
146	1173	97.4	227	4	US-10-403-676-58
147	1173	97.4	235	4	US-10-403-676-60

148	1171	97.3	227	3	US-09-895-298-107	Sequence 107, App
149	1171	97.3	227	5	US-10-885-039-107	Sequence 107, App
150	1170	97.2	227	4	US-10-403-676-76	Sequence 76, Appl
151	1170	97.2	227	4	US-10-403-142-108	Sequence 108, App
152	1167	96.9	227	4	US-10-403-142-126	Sequence 126, App
153	1166	96.8	227	4	US-10-403-142-124	Sequence 124, App
154	1165	96.8	227	4	US-10-403-142-118	Sequence 118, App
155	1163	96.6	227	4	US-10-403-142-120	Sequence 120, App
156	1160	96.3	227	4	US-10-403-142-122	Sequence 122, App
157	1070	88.9	206	4	US-10-403-676-66	Sequence 66, Appl
158	1068	88.7	205	4	US-10-403-676-78	Sequence 78, Appl
159	1068	88.7	209	4	US-10-403-142-114	Sequence 114, App
160	1068	88.7	211	4	US-10-403-676-70	Sequence 70, Appl
161	1066	88.5	206	4	US-10-403-676-64	Sequence 64, Appl
162	1065	88.5	209	4	US-10-403-142-110	Sequence 110, App
163	1064	88.4	211	4	US-10-403-676-68	Sequence 68, Appl
164	1055	87.6	205	4	US-10-403-142-116	Sequence 116, App
165	1055	87.6	209	4	US-10-403-142-112	Sequence 112, App
166	961	79.8	182	4	US-10-403-676-72	Sequence 72, Appl
167	957	79.5	182	4	US-10-403-676-74	Sequence 74, Appl
168	764	63.5	182	4	US-10-281-265-717	Sequence 717, App
169	764	63.5	182	6	US-11-000-463-717	Sequence 717, App
170	688	57.1	149	3	US-09-895-298-218	Sequence 218, App
171	688	57.1	149	5	US-10-885-039-218	Sequence 218, App
172	430	35.7	84	4	US-10-425-115-312177	Sequence 312177, App
173	394	32.7	86	3	US-09-895-298-112	Sequence 112, App
174	394	32.7	86	3	US-09-895-298-224	Sequence 224, App
175	394	32.7	86	5	US-10-885-039-1112	Sequence 112, App
176	394	32.7	86	5	US-10-885-039-224	Sequence 224, App
177	235.5	19.6	187	4	US-10-356-631-7	Sequence 7, Appl
178	235.5	19.6	187	4	US-10-316-253-105	Sequence 105, App
179	235.5	19.6	187	4	US-10-316-253-107	Sequence 107, App
180	232	19.3	105	5	US-10-773-236-226	Sequence 226, App
181	232	19.3	105	5	US-10-773-236-329	Sequence 329, App
182	231	19.2	152	3	US-09-879-401-6	Sequence 6, Appl
183	229	19.0	178	6	US-11-097-143-13236	Sequence 12336, A
184	225	18.7	187	5	US-10-362-642B-1	Sequence 1, Appl
185	222.5	18.5	187	4	US-10-382-970-4	Sequence 4, Appl
186	222.5	18.5	187	4	US-10-384-358-4	Sequence 4, Appl
187	222.5	18.5	187	6	US-11-097-143-21771	Sequence 21771, A
188	222	18.4	220	4	US-10-384-435B-5	Sequence 5, Appl
189	222	18.4	220	4	US-10-382-970-5	Sequence 5, Appl
190	218.5	18.1	186	4	US-10-356-631-8	Sequence 8, Appl
191	216.5	18.0	202	6	US-11-097-143-26418	Sequence 26418, A
192	213	17.7	187	4	US-10-382-970-3	Sequence 3, Appl
193	213	17.7	187	4	US-10-384-358-3	Sequence 3, Appl
194	211	17.5	187	4	US-10-382-970-2	Sequence 2, Appl
195	211	17.5	187	4	US-10-384-435B-2	Sequence 2, Appl
196	207.5	17.2	223	5	US-10-873-595-12	Sequence 12, Appl
197	207.5	17.2	223	5	US-10-873-595-12	Sequence 12, Appl
198	205	17.0	187	4	US-10-363-616-282	Sequence 282, App
199	205	17.0	187	4	US-10-408-765A-468	Sequence 468, App
200	205	17.0	187	5	US-10-851-921-10	Sequence 10, Appl
201	205	17.0	187	5	US-10-362-642B-2	Sequence 2, Appl
202	205	17.0	187	6	US-11-124-367A-483	Sequence 483, App
203	204.5	17.0	186	4	US-10-437-963-165818	Sequence 165818, App
204	204.5	17.0	176	5	US-10-343-477A-30	Sequence 30, Appl
205	202.5	16.8	172	5	US-10-343-477A-36	Sequence 36, Appl
206	202	16.8	140	4	US-10-408-765A-260	Sequence 260, App
207	195.5	16.2	485	4	US-10-437-963-203900	Sequence 203900, App
208	194.5	16.2	180	5	US-10-343-477A-42	Sequence 42, Appl
209	194.5	16.2	196	4	US-10-425-114-67491	Sequence 67491, A
210	194.5	16.2	196	4	US-10-425-114-67492	Sequence 67492, A
211	193	16.0	158	5	US-10-343-477A-54	Sequence 54, Appl
212	193	16.0	180	5	US-10-343-477A-6	Sequence 6, Appl
213	192	15.9	180	4	US-10-425-115-193329	Sequence 193329, App
214	192	15.9	180	5	US-10-343-477A-14	Sequence 14, Appl
215	186.5	15.5	179	6	US-11-097-143-15546	Sequence 15546, A
216	185.5	15.4	174	5	US-10-343-477A-4	Sequence 4, Appl
217	185	15.4	178	4	US-10-437-963-172754	Sequence 172754, App
218	182	15.1	177	4	US-10-425-115-243651	Sequence 243651, App
219	182	15.1	177	5	US-10-343-477A-18	Sequence 18, Appl
220	182	15.1	179	4	US-10-425-114-56802	Sequence 56802, A

221	182	15.1	179	4	US-10-432-531-2	Sequence 2, Appl	294	140	11.6	173	5	US-10-343-477A-32	Sequence 32, Appl
222	182	15.1	179	4	US-10-432-531-4	Sequence 4, Appl	295	140	11.6	173	6	US-11-087-099-3805	Sequence 3805, Ap
223	182	15.1	179	5	US-10-343-477A-62	Sequence 62, Appl	296	138	11.5	176	4	US-10-437-963-132830	Sequence 132830,
224	182	15.1	197	4	US-10-437-963-168356	Sequence 168356,	297	137.5	11.4	176	4	US-10-382-970-7	Sequence 7, Appl
225	181.5	15.0	211	6	US-11-097-143-26415	Sequence 26415, A	298	137.5	11.4	176	4	US-10-384-4358-7	Sequence 7, Appl
226	181	15.0	210	6	US-11-097-143-11358	Sequence 11358, A	299	137.5	11.4	177	4	US-10-356-631-5	Sequence 5, Appl
227	180	15.0	171	4	US-10-767-701-33894	Sequence 33894, A	300	137.5	11.4	177	4	US-10-356-631-22	Sequence 22, Appl
228	179	14.9	177	4	US-10-655-799-26	Sequence 26, Appl	301	137.5	11.4	177	5	US-10-507-355-4	Sequence 4, Appl
229	179	14.9	177	6	US-11-110-082-26	Sequence 26, Appl	302	137.5	11.4	177	6	US-11-087-099-375	Sequence 375, Ap
230	177.5	14.7	225	5	US-10-450-763-57817	Sequence 57817, A	303	137	11.3	174	4	US-10-425-115-240923	Sequence 240923,
231	177	14.7	181	4	US-10-767-701-51358	Sequence 51358, A	304	135.5	11.3	174	4	US-10-655-799-36	Sequence 36, Appl
232	175.5	14.6	174	4	US-10-437-963-160980	Sequence 160980,	305	135.5	11.3	174	6	US-11-110-082-33	Sequence 33, Appl
233	175.5	14.6	174	4	US-10-343-477A-56	Sequence 56, Appl	306	133	11.0	145	4	US-10-767-701-58650	Sequence 58650, A
234	175.5	14.6	176	6	US-11-097-143-28200	Sequence 28200, A	307	133	11.0	177	6	US-11-087-099-11875	Sequence 11875, A
235	174	14.5	163	4	US-10-425-115-259487	Sequence 259487,	308	133	11.0	178	5	US-10-507-355-5	Sequence 5, Appl
236	173	14.4	177	4	US-10-424-599-274975	Sequence 274975,	309	133	11.0	178	5	US-10-507-355-6	Sequence 6, Appl
237	173	14.4	185	4	US-10-437-963-148986	Sequence 148986,	310	133	11.0	178	6	US-11-087-099-11791	Sequence 11791, Ap
238	172	14.3	172	4	US-10-424-599-201099	Sequence 201099,	311	133	11.0	178	6	US-11-087-099-11170	Sequence 11170, A
239	172	14.3	172	6	US-11-087-099-9014	Sequence 9014, Ap	312	131.5	10.9	143	4	US-10-425-114-47908	Sequence 47908, A
240	169	14.0	173	5	US-10-343-477A-40	Sequence 40, Appl	313	131.5	10.9	172	4	US-10-424-599-181338	Sequence 181338,
241	168.5	14.0	172	5	US-10-343-477A-10	Sequence 10, Appl	314	131.5	10.9	177	4	US-10-356-631-21	Sequence 21, Appl
242	168.5	14.0	173	5	US-10-343-477A-8	Sequence 8, Appl	315	131	10.9	178	6	US-11-087-099-8902	Sequence 8902, Ap
243	168.5	14.0	177	5	US-10-425-115-290498	Sequence 290498,	316	131	10.9	178	6	US-11-087-099-11390	Sequence 11390, A
244	168.5	14.0	177	5	US-10-343-477A-16	Sequence 16, Appl	317	130.5	10.8	128	5	US-10-343-477A-24	Sequence 24, Appl
245	168.5	14.0	187	4	US-10-425-114-64381	Sequence 64381, A	318	130	10.8	128	5	US-10-343-477A-58	Sequence 58, Appl
246	167.5	13.9	168	4	US-10-767-701-51924	Sequence 51924, A	319	129	10.7	103	5	US-10-343-477A-58	Sequence 58, Appl
247	166	13.8	150	5	US-10-343-477A-2	Sequence 2, Appl	320	128	10.6	173	4	US-10-507-355-3	Sequence 3, Appl
248	165	13.7	172	6	US-11-087-099-113320	Sequence 11320, A	321	124	10.3	23	3	US-09-895-298-220	Sequence 220, App
249	165	13.7	174	5	US-10-343-477A-12	Sequence 12, Appl	322	124	10.2	23	5	US-10-885-039-220	Sequence 220, App
250	164	13.6	174	5	US-10-507-355-11	Sequence 11, Appl	323	122.5	10.2	219	4	US-10-382-970-8	Sequence 8, Appl
251	164	13.6	175	3	US-09-845-849-2	Sequence 2, Appl	324	122.5	10.2	219	4	US-10-384-4358-8	Sequence 8, Appl
252	164	13.6	175	3	US-09-919-478-3	Sequence 3, Appl	325	121	10.0	24	3	US-09-895-298-219	Sequence 219, App
253	164	13.6	175	3	US-09-919-478-3	Sequence 3, Appl	326	121	10.0	24	3	US-10-885-039-219	Sequence 219, App
254	164	13.6	175	5	US-10-343-477A-61	Sequence 61, Appl	327	121	10.0	178	6	US-11-087-099-4291	Sequence 4291, Ap
255	164	13.6	175	5	US-10-507-355-14	Sequence 14, Appl	328	120.5	10.1	136	3	US-09-919-478-4	Sequence 4, Appl
256	163	13.5	174	4	US-10-437-963-160617	Sequence 160617,	329	119	9.9	105	5	US-10-434-477A-26	Sequence 26, Appl
257	161	13.4	180	5	US-10-343-477A-44	Sequence 44, Appl	330	118.5	9.8	82	5	US-10-450-763-57815	Sequence 57815, A
258	160	13.3	174	5	US-10-343-477A-60	Sequence 60, Appl	331	114	9.5	177	6	US-11-087-099-6799	Sequence 6799, Ap
259	160	13.3	176	4	US-10-424-599-242775	Sequence 242775,	332	113.5	9.4	58	6	US-11-087-099-10167	Sequence 10167, A
260	159.5	13.2	175	4	US-10-424-599-281946	Sequence 281946,	333	113.5	9.4	197	6	US-10-432-934-85	Sequence 85, Appl
261	158.5	13.2	175	4	US-10-424-599-281946	Sequence 281946,	334	113	9.4	151	6	US-11-188-298-11725	Sequence 11725, A
262	158.5	13.2	176	3	US-09-919-478-41	Sequence 41, Appl	335	111.5	9.3	197	6	US-11-188-298-11725	Sequence 11725, A
263	157.5	13.1	176	4	US-10-425-115-211052	Sequence 211052,	336	110	9.1	112	4	US-10-425-115-259488	Sequence 259488,
264	157.5	13.1	182	4	US-10-425-114-72755	Sequence 72755, A	337	109.5	9.1	58	6	US-11-087-099-69655	Sequence 69655, Ap
265	157.5	13.1	276	5	US-10-491-733-44	Sequence 44, Appl	338	108.5	9.0	143	6	US-11-188-298-11336	Sequence 11336, Ap
266	157	13.0	177	4	US-10-424-599-182156	Sequence 182156,	339	108.5	8.9	181	6	US-11-188-298-2318	Sequence 2318, Ap
267	154.5	12.8	173	4	US-10-437-963-121745	Sequence 121745,	340	107	8.8	213	4	US-10-425-114-73066	Sequence 73066, A
268	154.5	12.8	173	5	US-10-507-355-13	Sequence 13, Appl	341	106.5	8.8	179	6	US-11-188-298-11944	Sequence 11944, A
269	153	12.7	173	5	US-10-343-477A-20	Sequence 20, Appl	342	106.5	8.8	203	6	US-11-188-298-5205	Sequence 5205, Ap
270	152.5	12.7	189	4	US-10-425-114-67447	Sequence 67447, A	343	106	8.8	20	3	US-09-895-298-221	Sequence 221, App
271	152	12.6	173	4	US-10-437-963-167316	Sequence 167316,	344	106	8.8	12	5	US-10-885-039-221	Sequence 221, App
272	152	12.6	173	5	US-10-343-477A-51	Sequence 51, Appl	345	106	8.8	11	6	US-11-188-298-11122	Sequence 11722, A
273	152	12.6	173	5	US-10-507-355-12	Sequence 12, Appl	346	105	8.7	106	3	US-09-291-8090-8	Sequence 8, Appl
274	152	12.6	179	4	US-10-262-445-38	Sequence 28, Appl	347	105	8.7	106	3	US-09-845-849-8	Sequence 8, Appl
275	150	12.5	172	4	US-10-372-909-2	Sequence 2, Appl	348	104.5	8.7	129	4	US-10-425-114-48249	Sequence 48249, A
276	148.5	12.3	173	5	US-10-507-355-10	Sequence 10, Appl	349	104	8.6	140	4	US-10-425-115-261245	Sequence 261245,
277	148	12.3	173	5	US-10-425-115-211050	Sequence 211050,	350	104	8.6	140	4	US-11-188-298-17732	Sequence 17732, A
278	148	12.3	181	4	US-10-356-631-2	Sequence 2, Appl	351	103.5	8.6	141	4	US-10-425-115-195892	Sequence 195892,
279	148	12.3	181	4	US-10-382-970-6	Sequence 6, Appl	352	103.5	8.6	141	4	US-11-188-298-8043	Sequence 8043, Ap
280	148	12.3	181	4	US-10-384-4358-6	Sequence 6, Appl	353	103	8.6	142	4	US-10-437-963-135491	Sequence 135491,
281	148	12.3	181	5	US-10-507-355-7	Sequence 7, Appl	354	103	8.6	142	4	US-11-188-298-21329	Sequence 21329, A
282	147.5	12.3	169	4	US-10-437-963-138655	Sequence 138655,	355	103	8.6	140	6	US-11-097-143-31194	Sequence 31194, A
283	147.5	12.3	175	5	US-10-507-355-8	Sequence 8, Appl	356	101.5	8.4	176	6	US-11-188-298-11413	Sequence 11413, A
284	145.5	12.1	193	4	US-10-425-115-356396	Sequence 356396,	357	100.5	8.3	126	6	US-11-188-298-17250	Sequence 17250, A
285	144.5	12.0	174	5	US-10-507-355-9	Sequence 9, Appl	358	100	8.3	183	6	US-11-188-298-6267	Sequence 6267, Ap
286	144.5	12.0	175	5	US-10-507-355-9	Sequence 9, Appl	359	100	8.3	183	6	US-11-188-298-2175	Sequence 2175, Ap
287	142.5	11.8	177	4	US-10-356-631-23	Sequence 23, Appl	360	98.5	8.2	216	6	US-11-188-298-11398	Sequence 11398, A
288	142.5	11.8	177	6	US-10-424-599-148429	Sequence 148429,	361	98.5	8.1	130	6	US-11-188-298-11694	Sequence 11694, A
289	141	11.7	173	4	US-10-343-477A-38	Sequence 38, Appl	362	96.5	8.0	166	6	US-11-188-298-11675	Sequence 11675, A
290	141	11.7	173	6	US-11-087-099-6266	Sequence 6266, Ap	363	96	8.0	166	6	US-11-188-298-21832	Sequence 21832, A
291	141	11.7	173	6	US-10-425-114-55003	Sequence 55003, A	364	96	8.0	229	4	US-10-437-963-184618	Sequence 184618,
292	141	11.7	195	4	US-10-343-477A-22	Sequence 22, Appl	365	96	8.0	229	4	US-10-437-963-184618	Sequence 184618,
293	140	11.6	173	5	US-10-343-477A-22	Sequence 22, Appl	366	95	7.9	183	6	US-11-188-298-13858	Sequence 13858, A

367	95	7.9	201	4	US-10-432-934-87	Sequence 87, Appl	440	79	6.6	173	4	US-10-767-701-46947	Sequence 46947, A
368	94	7.8	80	4	US-10-425-115-229094	Sequence 239094, A	441	79	6.6	197	4	US-10-424-599-285284	Sequence 285284, A
369	93	7.7	166	6	US-11-096-568A-26605	Sequence 26605, A	442	79	6.6	389	4	US-10-767-701-11090	Sequence 11090, A
370	93	7.7	173	6	US-11-096-568A-26604	Sequence 26604, A	443	79	6.6	948	4	US-10-437-963-183451	Sequence 183451, A
371	93	7.7	209	6	US-11-096-568A-26603	Sequence 26603, A	444	78.5	6.5	83	3	US-09-895-298-215	Sequence 215, Appl
372	92.5	7.7	172	3	US-09-902-331-10	Sequence 10, Appl	445	78.5	6.5	83	3	US-10-885-039-215	Sequence 215, Appl
373	91.5	7.6	176	3	US-09-902-331-6	Sequence 6, Appl	446	78.5	6.5	162	6	US-11-188-298-5565	Sequence 5565, Appl
374	91.5	7.6	176	4	US-10-425-115-228728	Sequence 228728, A	447	78.5	6.5	285	4	US-10-437-963-153368	Sequence 153368, A
375	91.5	7.6	551	4	US-10-369-493-930	Sequence 930, Appl	448	78	6.5	191	4	US-10-424-599-285285	Sequence 285285, A
376	91	7.6	17	5	US-09-895-298-222	Sequence 222, Appl	449	77	6.4	110	4	US-10-289-962-943	Sequence 943, Appl
377	91	7.6	17	3	US-10-885-039-222	Sequence 222, Appl	450	77	6.4	579	4	US-10-011-548-2	Sequence 2, Appl
378	91	7.6	179	5	US-10-156-761-14011	Sequence 14011, A	451	77	6.4	1275	4	US-10-128-714-3125	Sequence 3125, Appl
379	89.5	7.4	176	3	US-09-791-171-50	Sequence 50, Appl	452	76.5	6.4	21	3	US-09-895-298-217	Sequence 217, Appl
380	89.5	7.4	176	3	US-09-804-980-50	Sequence 50, Appl	453	76.5	6.4	21	3	US-10-885-039-217	Sequence 217, Appl
381	89.5	7.4	176	4	US-10-620-246-50	Sequence 50, Appl	454	76.5	6.4	164	4	US-10-424-599-221054	Sequence 221054, A
382	89.5	7.4	196	4	US-10-408-765A-2170	Sequence 2170, Appl	455	76.5	6.4	168	3	US-09-902-331-16	Sequence 16, Appl
383	89.5	7.4	1945	6	US-11-097-143-23139	Sequence 23139, A	456	76.5	6.4	360	6	US-11-188-298-1516	Sequence 1516, Appl
384	88.5	7.4	174	3	US-10-902-331-8	Sequence 8, Appl	457	76.5	6.4	1082	6	US-10-437-963-136625	Sequence 136625, A
385	88.5	7.4	194	6	US-11-188-298-6687	Sequence 6687, Appl	458	76.5	6.4	1137	6	US-11-097-143-11301	Sequence 11301, A
386	88.5	7.4	209	4	US-10-425-114-41291	Sequence 41291, A	459	76.5	6.4	1246	6	US-11-097-143-11301	Sequence 11301, A
387	88.5	7.4	209	6	US-11-188-298-11577	Sequence 11577, A	460	76	6.3	268	4	US-10-369-493-21100	Sequence 21100, A
388	88	7.3	87	5	US-10-343-477A-34	Sequence 34, Appl	461	76	6.3	312	4	US-10-146-772-354	Sequence 354, Appl
389	88	7.3	87	4	US-10-425-115-211755	Sequence 211755, A	462	76	6.3	312	4	US-10-241-742-354	Sequence 354, Appl
390	88	7.3	159	6	US-11-188-298-10537	Sequence 10537, A	463	76	6.3	312	4	US-10-440-523-354	Sequence 354, Appl
391	88	7.3	167	3	US-09-902-331-4	Sequence 4, Appl	464	76	6.3	312	4	US-10-440-503-354	Sequence 354, Appl
392	88	7.3	167	4	US-10-437-963-153847	Sequence 153847, A	465	76	6.3	312	4	US-10-461-925-354	Sequence 354, Appl
393	88	7.3	267	3	US-09-985-153-12	Sequence 153, Appl	466	76	6.3	312	4	US-10-424-599-242624	Sequence 242624, A
394	88	7.3	297	3	US-09-985-153-12	Sequence 153, Appl	467	76	6.3	436	6	US-11-188-298-19788	Sequence 19788, A
395	87.5	7.3	168	6	US-11-188-298-11621	Sequence 11621, A	468	76	6.3	1430	6	US-11-097-143-19083	Sequence 19083, A
396	87.5	7.3	1705	6	US-10-029-345A-37	Sequence 37, Appl	469	76	6.3	1435	6	US-10-128-714-1125	Sequence 8125, Appl
397	87.5	7.3	1705	6	US-11-143-984A-37	Sequence 37, Appl	470	75.5	6.3	96	4	US-10-425-115-220451	Sequence 220451, A
398	87	7.2	89	4	US-10-655-799-27	Sequence 27, Appl	471	75.5	6.3	174	4	US-10-454-599-280015	Sequence 280015, A
399	87	7.2	89	4	US-11-110-082-27	Sequence 27, Appl	472	75.5	6.3	402	4	US-10-425-115-266759	Sequence 266759, A
400	87	7.2	150	6	US-11-188-298-15223	Sequence 15223, A	473	75.5	6.3	634	4	US-10-425-114-67606	Sequence 67606, A
401	87	7.2	165	3	US-09-902-331-12	Sequence 12, Appl	474	75.5	6.3	634	4	US-10-437-963-109507	Sequence 109507, A
402	87	7.2	304	6	US-11-188-298-16697	Sequence 16697, A	475	75.5	6.3	816	4	US-10-696-616-14	Sequence 44, Appl
403	86.5	7.2	154	6	US-11-188-298-6570	Sequence 6570, Appl	476	75.5	6.3	965	4	US-10-408-765A-146	Sequence 146, Appl
404	86.5	7.1	200	6	US-11-188-298-2115	Sequence 2115, Appl	477	75.5	6.3	1076	4	US-10-101-235A-6	Sequence 6, Appl
405	85.5	7.1	273	4	US-10-108-260A-2625	Sequence 2625, Appl	478	75.5	6.3	1076	4	US-10-902-137-6	Sequence 6, Appl
406	85.5	7.1	490	3	US-09-992-238-7	Sequence 7, Appl	479	75.5	6.3	1101	2	US-08-908-453-12	Sequence 12, Appl
407	85.5	7.1	490	3	US-10-712-615-7	Sequence 7, Appl	480	75.5	6.3	1101	5	US-10-893-315-74	Sequence 74, Appl
408	85	7.1	165	3	US-09-902-331-14	Sequence 14, Appl	481	75.5	6.3	1102	4	US-10-408-765A-1342	Sequence 1342, Appl
409	85	7.1	165	6	US-11-096-568A-4144	Sequence 4144, Appl	482	75.5	6.3	1110	4	US-10-101-235A-4	Sequence 4, Appl
410	85	7.1	165	6	US-11-188-298-13141	Sequence 13141, A	483	75.5	6.3	1110	5	US-10-902-137-4	Sequence 4, Appl
411	85	7.1	165	6	US-11-188-298-20625	Sequence 20625, A	484	75.5	6.3	1504	4	US-10-425-115-351847	Sequence 351847, A
412	85	7.1	181	6	US-11-096-568A-4143	Sequence 4143, Appl	485	75	6.2	146	6	US-11-188-298-14925	Sequence 14925, A
413	84	7.0	183	6	US-11-098-686A-10705	Sequence 10705, A	486	75	6.2	184	4	US-10-029-386-34205	Sequence 34205, A
414	83.5	6.9	274	4	US-10-755-889-32	Sequence 32, Appl	487	75	6.2	229	4	US-10-724-972A-4376	Sequence 4376, Appl
415	83.5	6.9	275	3	US-09-925-301-1294	Sequence 1294, Appl	488	75	6.2	417	4	US-10-437-963-153712	Sequence 153712, A
416	83.5	6.9	278	6	US-11-188-298-20907	Sequence 20907, A	489	75	6.2	559	4	US-10-369-493-19251	Sequence 19251, A
417	83	6.9	232	4	US-10-437-963-113293	Sequence 113293, A	490	75	6.2	651	5	US-10-517-939-3268	Sequence 3268, Appl
418	83	6.9	595	4	US-10-170-385-919	Sequence 319, Appl	491	75	6.2	980	4	US-10-369-493-1406	Sequence 1406, Appl
419	82	6.8	198	4	US-10-437-963-114393	Sequence 114393, A	492	75	6.2	980	4	US-10-451-697-32	Sequence 32, Appl
420	82	6.8	357	4	US-10-424-599-242626	Sequence 242626, A	493	75	6.2	1041	4	US-10-369-493-1935	Sequence 1935, Appl
421	82	6.8	1297	6	US-11-097-143-35221	Sequence 35221, A	494	75	6.2	1419	6	US-11-097-143-40194	Sequence 40194, A
422	81.5	6.8	164	6	US-11-188-298-17358	Sequence 25221, A	495	74.5	6.2	1306	6	US-10-767-701-55289	Sequence 55289, A
423	81.5	6.8	166	6	US-11-188-298-2433	Sequence 2433, Appl	496	74.5	6.2	206	4	US-10-424-599-197857	Sequence 197857, A
424	81.5	6.8	177	3	US-09-738-626-5179	Sequence 5179, Appl	497	74.5	6.2	226	4	US-10-335-175-79	Sequence 79, Appl
425	80.5	6.7	76	4	US-10-425-115-72042	Sequence 72042, A	498	74.5	6.2	226	4	US-10-237-386-62	Sequence 62, Appl
426	80.5	6.7	166	6	US-11-188-298-8797	Sequence 8797, Appl	499	74.5	6.2	265	6	US-11-170-653-62	Sequence 62, Appl
427	80.5	6.7	287	6	US-11-188-298-4293	Sequence 4293, Appl	500	74.5	6.2	311	4	US-10-369-493-14114	Sequence 14114, A
428	80.5	6.7	495	6	US-11-096-568A-34293	Sequence 34293, A	501	74.5	6.2	344	6	US-11-188-298-15207	Sequence 15207, A
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431	79.5	6.6	62	4	US-10-767-701-50212	Sequence 50212, A	504	74.5	6.2	531	4	US-10-369-493-17970	Sequence 17970, A
432	79.5	6.6	170	4	US-10-425-114-65560	Sequence 197858, A	505	74.5	6.2	686	6	US-10-011-548-4	Sequence 4, Appl
433	79.5	6.6	358	4	US-10-425-114-65560	Sequence 65560, A	506	74.5	6.2	1036	6	US-11-045-004-1391	Sequence 1391, Appl
434	79.5	6.6	595	4	US-10-080-334-247	Sequence 247, Appl	507	74.5	6.2	1233	5	US-10-835-641-25	Sequence 25, Appl
435	79.5	6.6	630	4	US-10-369-493-5044	Sequence 5044, Appl	508	74	6.1	319	6	US-10-282-122A-60415	Sequence 60415, A
436	79.5	6.6	648	4	US-10-437-963-173586	Sequence 173586, A	509	74	6.1	319	6	US-11-045-004-2130	Sequence 2130, Appl
437	79.5	6.6	1042	4	US-10-282-122A-61918	Sequence 61918, A	510	74	6.1	407	6	US-11-096-568A-11540	Sequence 11540, A
438	79.5	6.6	89	6	US-11-188-298-7924	Sequence 7924, Appl	511	74	6.1	437	6	US-11-096-568A-11539	Sequence 11539, A
439	79	6.6	89	6	US-11-188-298-7924	Sequence 7924, Appl	512	74	6.1	437	6	US-11-096-568A-11539	Sequence 11539, A

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514	74	6.1	504	4	US-10-072-012-863	Sequence 863, App	587	72.5	6.0	1102	3	US-09-974-573-1	Sequence 1, Appli
515	74	6.1	548	4	US-10-451-467A-480	Sequence 480, App	588	72.5	6.0	1183	3	US-10-071-900-4	Sequence 4, Appli
516	74	6.1	548	4	US-10-451-467A-674	Sequence 674, App	589	72.5	6.0	1211	3	US-09-969-034-4487	Sequence 4487, Ap
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518	74	6.1	1061	4	US-10-425-114-53914	Sequence 53914, A	591	72.5	6.0	2727	6	US-11-097-143-11814	Sequence 11814, A
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521	74	6.1	2092	4	US-10-042-865-79	Sequence 79, Appli	594	72	6.0	210	4	US-10-035-895-2	Sequence 2, Appli
522	74	6.1	2092	4	US-10-408-765A-1967	Sequence 167, Ap	595	72	6.0	1975	4	US-10-282-122A-55720	Sequence 55720, A
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524	74	6.1	2383	5	US-10-499-353A-565	Sequence 565, App	597	72	6.0	299	3	US-09-808-602-63	Sequence 62, Appli
525	74	6.1	2429	4	US-10-288-798-8	Sequence 8, Appli	598	72	6.0	299	3	US-09-800-198-52	Sequence 53, Appli
526	74	6.1	2429	4	US-10-377-035-17	Sequence 17, Appli	599	72	6.0	379	4	US-10-029-386-32938	Sequence 32938, A
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536	73.5	6.1	504	5	US-10-874-015-4	Sequence 441, App	609	71.5	5.9	203	4	US-10-425-115-65296	Sequence 304624, A
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547	73.5	6.1	1103	5	US-10-893-315-119	Sequence 119, App	620	71.5	5.9	774	4	US-10-282-122A-43232	Sequence 43232, A
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554	73	6.1	508	4	US-10-128-714-4028	Sequence 4028, Ap	627	71.5	5.9	2030	4	US-10-437-963-19100	Sequence 195849, A
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558	73	6.1	747	5	US-10-784-004-636	Sequence 636, App	631	71	5.9	434	6	US-11-087-099-8234	Sequence 8234, Ap
559	73	6.1	747	5	US-10-784-004-720	Sequence 720, App	632	71	5.9	659	4	US-10-282-122A-38500	Sequence 38500, A
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562	73	6.1	1711	6	US-11-143-984A-38	Sequence 38, Appli	635	71	5.9	930	5	US-10-437-963-197193	Sequence 197193, A
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565	72.5	6.0	158	4	US-10-425-115-304627	Sequence 304627, A	638	71	5.9	1298	5	US-10-501-035-226	Sequence 226, App
566	72.5	6.0	158	4	US-10-425-115-304633	Sequence 304633, A	639	71	5.9	1398	5	US-10-732-923-8151	Sequence 8151, App
567	72.5	6.0	158	4	US-10-425-115-304634	Sequence 304634, A	640	71	5.9	1444	4	US-10-408-765A-545	Sequence 545, App
568	72.5	6.0	158	6	US-11-172-740-2164	Sequence 2164, Ap	641	71	5.9	1444	5	US-10-732-923-8814	Sequence 8814, Ap
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571	72.5	6.0	321	4	US-10-424-599-243757	Sequence 243757, A	644	71	5.9	1444	5	US-10-479-874A-24	Sequence 24, Appli
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574	72.5	6.0	327	5	US-10-652-928-58	Sequence 58, Appli	647	70.5	5.9	71	4	US-10-356-631-15	Sequence 15, Appli
575	72.5	6.0	327	5	US-10-632-150-58	Sequence 58, Appli	648	70.5	5.9	184	4	US-10-197-666A-28	Sequence 28, Appli
576	72.5	6.0	327	6	US-11-073-485-58	Sequence 58, Appli	649	70.5	5.9	184	4	US-10-024-298A-81	Sequence 81, Appli
577	72.5	6.0	327	6	US-11-073-470-58	Sequence 58, Appli	650	70.5	5.9	184	4	US-10-042-211A-81	Sequence 81, Appli
578	72.5	6.0	327	6	US-11-073-457-58	Sequence 58, Appli	651	70.5	5.9	184	4	US-10-617-217A-81	Sequence 81, Appli
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662	70.5	5.9	1213	4	US-10-425-115-212446	Sequence 212446,	735	69	214	4	US-10-411-026-55	Sequence 55, Appl
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665	70.5	5.9	1737	4	US-10-437-963-195758	Sequence 195758,	738	69	214	4	US-10-410-930-55	Sequence 55, Appl
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670	70	5.8	316	3	US-09-815-242-10795	Sequence 10795, A	743	69	214	4	US-10-410-980-55	Sequence 55, Appl
671	70	5.8	354	3	US-09-731-872-416	Sequence 416, App	744	69	214	5	US-10-410-897-55	Sequence 55, Appl
672	70	5.8	354	3	US-09-876-997-416	Sequence 416, App	745	69	214	5	US-10-492-261-55	Sequence 55, Appl
673	70	5.8	354	3	US-10-415-187-10	Sequence 10, Appl	746	69	214	6	US-11-183-205-55	Sequence 55, Appl
674	70	5.8	354	5	US-10-643-836-116	Sequence 416, App	747	69	214	4	US-10-660-128-9	Sequence 9, Appl1
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676	70	5.8	402	4	US-10-072-012-443	Sequence 443, App	749	69	245	3	US-09-797-941A-6	Sequence 6, Appl1
677	70	5.8	438	3	US-09-950-902-2	Sequence 2, Appl1	750	69	245	5	US-10-965-585-6	Sequence 6, Appl1
678	70	5.8	481	6	US-11-096-568A-14751	Sequence 14751, A	751	69	245	5	US-10-424-599-263009	Sequence 263009,
679	70	5.8	483	6	US-11-096-568A-14750	Sequence 14750, A	752	69	339	4	US-10-146-772-248	Sequence 248, App
680	70	5.8	485	4	US-10-183-687-421	Sequence 421, App	753	69	339	4	US-10-241-742-248	Sequence 248, App
681	70	5.8	485	4	US-10-183-687-426	Sequence 426, App	754	69	339	4	US-10-440-523-248	Sequence 248, App
682	70	5.8	485	6	US-11-036-568A-14749	Sequence 14749, A	755	69	329	4	US-10-440-503-248	Sequence 248, App
683	70	5.8	503	4	US-10-072-012-120	Sequence 120, App	756	69	329	4	US-10-461-925-248	Sequence 248, App
684	70	5.8	732	6	US-11-098-686-10532	Sequence 10532, A	757	69	311	4	US-10-425-115-330485	Sequence 330485,
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695	70	5.8	2137	4	US-10-042-865-81	Sequence 81, Appl	768	69	632	4	US-10-322-281-772	Sequence 772, App
696	70	5.8	2432	4	US-10-112-944-359	Sequence 359, App	769	69	733	4	US-10-270-875-35	Sequence 35, Appl
697	70	5.8	2503	4	US-10-342-281-723	Sequence 723, Appl	770	69	733	4	US-10-270-875-35	Sequence 35, Appl
698	70	5.8	2545	4	US-10-032-865-12	Sequence 12, Appl	771	69	773	4	US-10-270-710-35	Sequence 35, Appl
699	69.5	5.8	196	6	US-11-036-568A-24825	Sequence 24825, A	772	69	773	4	US-10-270-710-35	Sequence 35, Appl
700	69.5	5.8	204	6	US-11-188-298-8676	Sequence 8676, App	773	69	773	4	US-10-270-859-35	Sequence 35, Appl
701	69.5	5.8	211	6	US-11-096-568A-24824	Sequence 24824, A	774	69	773	4	US-10-270-859-35	Sequence 35, Appl
702	69.5	5.8	253	5	US-10-822-613-32	Sequence 32, Appl	775	69	773	4	US-10-270-859-35	Sequence 35, Appl
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704	69.5	5.8	277	4	US-10-238-075-682	Sequence 682, App	777	69	818	5	US-10-479-764-23	Sequence 23, Appl
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706	69.5	5.8	329	4	US-10-425-115-212326	Sequence 212326,	779	69	1064	5	US-11-072-512-2830	Sequence 2830,
707	69.5	5.8	339	4	US-10-424-599-210519	Sequence 210519,	780	69	1064	5	US-10-763-692-4	Sequence 4, Appl1
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710	69.5	5.8	466	4	US-10-425-114-46206	Sequence 46206, A	783	69	1339	4	US-10-437-963-135124	Sequence 135124,
711	69.5	5.8	478	4	US-10-424-599-272789	Sequence 272789,	784	69	157	5	US-10-082-830-282	Sequence 282, App
712	69.5	5.8	484	4	US-10-425-114-40095	Sequence 40095, A	785	68.5	157	5	US-10-425-115-298875	Sequence 298875,
713	69.5	5.8	515	5	US-10-732-923-20912	Sequence 20912, A	786	68.5	157	5	US-10-425-115-298875	Sequence 298875,
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715	69.5	5.8	777	4	US-10-424-599-276806	Sequence 276806,	788	68.5	169	4	US-10-156-761-14995	Sequence 14995, A
716	69.5	5.8	747	5	US-10-784-004-315	Sequence 315, App	789	68.5	193	4	US-10-425-115-357743	Sequence 357743,
717	69.5	5.8	747	5	US-10-784-004-399	Sequence 399, App	790	68.5	193	4	US-10-425-115-357743	Sequence 357743,
718	69.5	5.8	747	5	US-10-784-004-400	Sequence 400, App	791	68.5	193	4	US-10-767-701-57892	Sequence 57892, A
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720	69.5	5.8	775	4	US-10-208-508-70	Sequence 70, Appl	793	68.5	203	6	US-11-188-298-12501	Sequence 12501, A
721	69.5	5.8	817	4	US-10-369-493-10312	Sequence 10312, A	794	68.5	203	6	US-11-188-298-12501	Sequence 12501, A
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723	69.5	5.8	1250	4	US-10-156-761-7572	Sequence 7572, App	796	68.5	233	4	US-10-437-963-133182	Sequence 133182,
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725	69.5	5.8	2029	4	US-10-087-684-38	Sequence 38, Appl	798	68.5	343	4	US-10-424-599-276804	Sequence 276804,
726	69.5	5.8	2039	4	US-10-218-779-38	Sequence 38, Appl	799	68.5	395	4	US-10-080-334-246	Sequence 246, App
727	69.5	5.8	2037	4	US-10-087-684-39	Sequence 39, Appl	800	68.5	416	4	US-10-424-599-253410	Sequence 253410,
728	69.5	5.8	2037	4	US-10-218-779-39	Sequence 39, Appl	801	68.5	425	4	US-10-389-566-1493	Sequence 1493, App
729	69.5	5.8	2037	6	US-11-097-143-42576	Sequence 42576, A	802	68.5	425	6	US-11-087-099-11192	Sequence 11192, A
730	69.5	5.8	2041	4	US-10-408-765A-1151	Sequence 1151, App	803	68.5	463	4	US-10-425-114-70326	Sequence 70326, A
731	69.5	5.8	2270	4	US-10-408-765A-800	Sequence 800, App	804	68.5	470	4	US-10-424-599-277584	Sequence 277584,

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810	68.5	5.7	590	4	US-10-425-115-320411	Sequence 320411, A	883	68	5.6	1962	4	US-10-084-846A-6	Sequence 6, Appl1
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812	68.5	5.7	605	3	US-09-832-616-2	Sequence 2, Appl1	885	67.5	5.6	157	5	US-10-732-923-21809	Sequence 21809, A
813	68.5	5.7	605	3	US-09-832-496-2	Sequence 2, Appl1	886	67.5	5.6	157	5	US-11-172-740-940	Sequence 940, Appl
814	68.5	5.7	760	6	US-11-079-463-6609	Sequence 6609, Appl	887	67.5	5.6	158	4	US-10-767-701-45529	Sequence 45529, A
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816	68.5	5.7	860	4	US-10-389-566-2131	Sequence 2131, Ap	889	67.5	5.6	164	4	US-10-097-065-664	Sequence 664, Appl
817	68.5	5.7	860	4	US-11-087-099-6246	Sequence 6246, Ap	890	67.5	5.6	164	4	US-10-372-876-664	Sequence 664, Appl
818	68.5	5.7	952	4	US-10-425-115-298579	Sequence 298579, A	891	67.5	5.6	165	4	US-10-097-065-266	Sequence 266, Appl
819	68.5	5.7	1025	4	US-10-425-115-297741	Sequence 297741, A	892	67.5	5.6	165	4	US-10-372-876-266	Sequence 266, Appl
820	68.5	5.7	1066	4	US-10-425-115-300671	Sequence 300671, A	893	67.5	5.6	168	6	US-11-188-298-166739	Sequence 18665, A
821	68.5	5.7	1082	4	US-10-425-115-300717	Sequence 300717, A	894	67.5	5.6	234	6	US-11-041-095-25	Sequence 25, Appl1
822	68.5	5.7	1185	3	US-09-839-401-18	Sequence 18, Appl	895	67.5	5.6	253	5	US-10-858-412-141	Sequence 141, Appl
823	68.5	5.7	1185	3	US-10-388-667-18	Sequence 18, Appl	896	67.5	5.6	277	4	US-10-282-122A-63420	Sequence 63420, A
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825	68.5	5.7	1501	4	US-10-437-963-192875	Sequence 192875, A	898	67.5	5.6	294	4	US-10-425-115-49266	Sequence 166739, A
826	68.5	5.7	4307	4	US-10-369-493-5698	Sequence 5698, Ap	899	67.5	5.6	295	4	US-10-437-963-166739	Sequence 11680, A
827	68.5	5.7	4307	4	US-10-369-493-5699	Sequence 5699, Ap	900	67.5	5.6	299	4	US-10-156-761-11680	Sequence 50, Appl
828	68.5	5.7	4307	4	US-10-369-493-5700	Sequence 5700, Ap	901	67.5	5.6	309	5	US-10-909-436-50	Sequence 241, Appl
829	68	5.6	134	4	US-10-425-115-255624	Sequence 255624, A	902	67.5	5.6	368	5	US-10-987-454-247	Sequence 247, Appl
830	68	5.6	193	4	US-10-425-115-265503	Sequence 265503, A	903	67.5	5.6	368	5	US-10-987-454-247	Sequence 247, Appl
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832	68	5.6	214	3	US-11-173-564-1	Sequence 1, Appl1	905	67.5	5.6	472	3	US-09-841-758-4	Sequence 4, Appl1
833	68	5.6	237	4	US-10-437-963-161259	Sequence 161259, A	906	67.5	5.6	497	3	US-09-796-753-116	Sequence 116, Appl
834	68	5.6	239	6	US-11-086-289-12	Sequence 12, Appl1	907	67.5	5.6	532	5	US-10-732-923-97978	Sequence 97978, A
835	68	5.6	303	4	US-10-156-761-13814	Sequence 13814, A	908	67.5	5.6	538	5	US-10-450-763-57778	Sequence 57778, A
836	68	5.6	303	4	US-11-188-298-15053	Sequence 15053, A	909	67.5	5.6	601	4	US-10-051-874-130	Sequence 130, Appl
837	68	5.6	337	6	US-11-079-463-9586	Sequence 9586, Ap	910	67.5	5.6	609	4	US-10-097-065-237	Sequence 237, Appl
838	68	5.6	380	4	US-10-032-585-7739	Sequence 7739, Ap	911	67.5	5.6	723	4	US-10-372-876-237	Sequence 237, Appl
839	68	5.6	380	4	US-10-437-963-159126	Sequence 159126, A	912	67.5	5.6	723	4	US-10-743-884-2	Sequence 2, Appl1
840	68	5.6	438	6	US-11-172-740-1517	Sequence 1517, Ap	913	67.5	5.6	915	4	US-10-282-122A-56053	Sequence 56053, A
841	68	5.6	431	4	US-10-437-963-185066	Sequence 185066, A	914	67.5	5.6	921	3	US-10-425-115-299807	Sequence 299807, A
842	68	5.6	449	4	US-10-285-403-6	Sequence 6, Appl1	915	67.5	5.6	921	3	US-09-996-024-2	Sequence 2, Appl1
843	68	5.6	449	4	US-10-278-536-186	Sequence 186, Appl	916	67.5	5.6	921	3	US-10-069-040-2	Sequence 2, Appl1
844	68	5.6	449	4	US-10-225-066A-1108	Sequence 1108, Ap	917	67.5	5.6	921	3	US-10-880-144-2	Sequence 2, Appl1
845	68	5.6	449	4	US-10-374-780A-2	Sequence 2, Appl1	918	67.5	5.6	999	4	US-10-425-115-299570	Sequence 299570, A
846	68	5.6	449	4	US-10-412-6998A-12	Sequence 12, Appl1	919	67.5	5.6	1024	4	US-10-425-115-298512	Sequence 298512, A
847	68	5.6	449	5	US-10-225-066A-1108	Sequence 1108, Ap	920	67.5	5.6	1032	4	US-10-425-115-297693	Sequence 297693, A
848	68	5.6	449	5	US-10-225-066A-1108	Sequence 1108, Ap	921	67.5	5.6	1034	4	US-10-052-648A-31	Sequence 31, Appl1
849	68	5.6	449	6	US-11-087-099-3727	Sequence 372, Appl	922	67.5	5.6	1034	4	US-10-052-648A-32	Sequence 32, Appl1
850	68	5.6	453	3	US-09-738-626-4277	Sequence 4277, Ap	923	67.5	5.6	1038	4	US-10-425-115-298833	Sequence 298833, A
851	68	5.6	475	4	US-10-403-902A-14	Sequence 14, Appl	924	67.5	5.6	1047	4	US-10-425-115-297578	Sequence 297578, A
852	68	5.6	475	4	US-10-755-889-100	Sequence 100, Appl	925	67.5	5.6	1054	4	US-10-425-115-298845	Sequence 298845, A
853	68	5.6	475	4	US-10-789-378-48	Sequence 48, Appl	926	67.5	5.6	1056	4	US-10-425-115-298691	Sequence 298691, A
854	68	5.6	475	5	US-10-741-600-1306	Sequence 1306, Ap	927	67.5	5.6	1066	4	US-10-425-115-297557	Sequence 297557, A
855	68	5.6	475	5	US-10-868-577A-44	Sequence 44, Appl	928	67.5	5.6	1082	4	US-10-425-115-297557	Sequence 297557, A
856	68	5.6	475	5	US-10-868-577A-65	Sequence 65, Appl	929	67.5	5.6	1082	4	US-10-425-115-297557	Sequence 297557, A
857	68	5.6	475	5	US-10-868-549-24	Sequence 24, Appl	930	67.5	5.6	1082	4	US-10-425-115-297557	Sequence 297557, A
858	68	5.6	475	5	US-10-745-337-390	Sequence 390, Appl	931	67.5	5.6	1082	4	US-10-425-115-297557	Sequence 297557, A
859	68	5.6	475	6	US-11-019-855-12	Sequence 12, Appl	932	67.5	5.6	145	6	US-11-188-298-17985	Sequence 17985, A
860	68	5.6	506	5	US-10-506-454-1119	Sequence 1119, Ap	933	67.5	5.6	149	4	US-10-425-115-251144	Sequence 251144, A
861	68	5.6	527	4	US-10-108-260A-3984	Sequence 3984, Ap	934	67.5	5.6	158	6	US-11-188-298-2683	Sequence 2683, Ap
862	68	5.6	585	4	US-10-339-884-1	Sequence 1, Appl1	935	67.5	5.6	158	6	US-11-188-298-1141	Sequence 1141, A
863	68	5.6	585	5	US-10-230-335-253	Sequence 253, Appl	936	67.5	5.6	158	6	US-11-188-298-1141	Sequence 1141, A
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865	68	5.6	623	4	US-10-437-963-174374	Sequence 174374, A	938	67.5	5.6	158	6	US-11-188-298-17416	Sequence 17416, A
866	68	5.6	623	4	US-10-437-963-190016	Sequence 190016, A	939	67.5	5.6	158	6	US-11-188-298-17985	Sequence 17985, A
867	68	5.6	762	6	US-11-097-143-19080	Sequence 19080, A	940	67.5	5.6	159	6	US-10-335-977-9520	Sequence 9520, Ap
868	68	5.6	848	4	US-10-437-963-118012	Sequence 118012, A	941	67.5	5.6	159	6	US-11-188-298-5447	Sequence 5447, Ap
869	68	5.6	1033	5	US-10-450-763-53579	Sequence 53579, A	942	67.5	5.6	169	4	US-10-424-599-160487	Sequence 160487, A
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873	68	5.6	1523	5	US-10-734-563-94	Sequence 94, Appl	946	67.5	5.6	179	4	US-10-425-115-353353	Sequence 353353, A
874	68	5.6	1681	4	US-10-037-417-20	Sequence 20, Appl	947	67.5	5.6	214	5	US-10-835-641-24	Sequence 24, Appl
875	68	5.6	1681	6	US-11-019-711-20	Sequence 20, Appl	948	67.5	5.6	233	4	US-10-424-599-282829	Sequence 282829, A
876	68	5.6	1697	4	US-10-037-417-68	Sequence 68, Appl	949	67.5	5.6	255	4	US-10-425-114-55860	Sequence 55860, A
877	68	5.6	1697	6	US-11-019-711-68	Sequence 68, Appl	950	67.5	5.6	268	4	US-10-425-115-364918	Sequence 364918, A

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953	67	5.6	337	5	US-10-450-763-30463	Sequence 30463, A	1233	66.5	180	3	US-09-896-923-46	Sequence 46, Appl
954	67	5.6	337	5	US-10-450-763-37937	Sequence 37937, A	1234	66.5	150	4	US-10-223-650-40	Sequence 46, Appl
955	67	5.6	347	3	US-09-950-902-4	Sequence 4, Appl1	1235	66.5	160	5	US-10-839-456-46	Sequence 46, Appl
956	67	5.6	358	4	US-10-437-963-125534	Sequence 125534,	1236	66.5	139	4	US-10-767-701-51224	Sequence 51224, A
957	67	5.6	365	4	US-10-664-421-75	Sequence 75, Appl	1237	66.5	159	4	US-10-472-317-30	Sequence 30, Appl
958	67	5.6	365	4	US-10-941-635-75	Sequence 75, Appl	1238	66.5	202	4	US-10-472-317-31	Sequence 31, Appl
959	67	5.6	372	3	US-09-771-161A-203	Sequence 203, App	1239	66.5	216	4	US-10-425-114-66532	Sequence 66532, A
960	67	5.6	372	3	US-09-394-257A-17	Sequence 17, Appl	1240	66.5	233	4	US-10-472-317-26	Sequence 26, Appl
961	67	5.6	372	4	US-10-332-322A-14	Sequence 14, Appl	1241	66.5	224	4	US-10-424-599-162712	Sequence 162712,
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998	67	5.6	412	4	US-10-167-749-157	Sequence 157, App	1246	66.5	284	5	US-10-450-763-47604	Sequence 47604, A
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1012	67	5.6	412	4	US-10-239-196-14	Sequence 14, Appl	1248	66.5	336	4	US-10-437-963-141333	Sequence 141333,
11021	67	5.6	412	4	US-10-323-051-6	Sequence 6, Appl1	1249	66.5	328	4	US-10-282-122A-74524	Sequence 74524, A
1117	67	5.6	412	4	US-10-170-481A-157	Sequence 157, App	1250	66.5	337	3	US-09-789-561-184	Sequence 184, App
1145	67	5.6	412	4	US-10-028-157	Sequence 157, App	1251	66.5	347	5	US-10-883-936-184	Sequence 184, App
1147	67	5.6	412	4	US-10-162-521A-157	Sequence 157, App	1252	66.5	347	6	US-11-096-568A-4722	Sequence 4722, App
1152	67	5.6	412	4	US-10-755-889-578	Sequence 578, App	1253	66.5	333	6	US-11-096-568A-4721	Sequence 4721, App
1163	67	5.6	412	5	US-10-918-851-157	Sequence 157, App	1254	66.5	368	5	US-10-987-454-244	Sequence 244, App
1165	67	5.6	412	5	US-10-805-667-157	Sequence 157, App	1255	66.5	382	4	US-10-425-115-223295	Sequence 223295,
1166	67	5.6	412	5	US-10-897-359-157	Sequence 157, App	1256	66.5	384	4	US-10-437-963-102718	Sequence 102718,
1167	67	5.6	412	5	US-10-893-802-157	Sequence 157, App	1257	66.5	404	4	US-10-437-963-102718	Sequence 102718,
1168	67	5.6	412	5	US-10-897-360-157	Sequence 157, App	1258	66.5	426	4	US-10-214-524-27	Sequence 27, Appl
1169	67	5.6	412	5	US-10-897-360-157	Sequence 157, App	1259	66.5	451	3	US-09-302-772-2	Sequence 2, Appl1
1186	67	5.6	412	6	US-11-129-762-157	Sequence 157, App	1260	66.5	451	5	US-10-851-328-2	Sequence 86, Appl
1187	67	5.6	412	6	US-11-117-161-11	Sequence 11, Appl	1261	66.5	459	4	US-10-153-668-86	Sequence 86, Appl
1188	67	5.6	412	6	US-11-080-257-11	Sequence 11, Appl	1262	66.5	480	4	US-10-425-115-298516	Sequence 298516,
1189	67	5.6	465	4	US-10-731-525-12	Sequence 12, Appl	1263	66.5	532	5	US-10-732-923-9800	Sequence 9800, App
1190	67	5.6	465	4	US-10-762-049-12	Sequence 12, Appl	1264	66.5	603	4	US-10-425-115-311789	Sequence 311789,
1191	67	5.6	484	4	US-10-389-566-1566	Sequence 1566, App	1265	66.5	608	4	US-10-156-761-14030	Sequence 14030, A
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1462	65.5	5.4	681	4	US-10-741-790-75	Sequence 75, Appl
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1493	65	5.4	170	6	US-11-188-298-401	Sequence 401, App
1494	65	5.4	175	4	US-10-425-114-44036	Sequence 44036, A
1495	65	5.4	180	3	US-09-896-923-44	Sequence 44, Appl
1496	65	5.4	180	4	US-10-223-650-44	Sequence 44, Appl
1497	65	5.4	180	5	US-10-839-456-44	Sequence 44, Appl
1498	65	5.4	185	5	US-10-739-930-6865	Sequence 6865, Ap
1499	65	5.4	188	4	US-10-424-599-193127	Sequence 193127, A
1500	65	5.4	192	4	US-10-437-963-177085	Sequence 177085, A

Search completed: November 19, 2006, 04:43:23

Job time : 208 secs

OM protein - protein search, using sw model

Run on: November 19, 2006, 04:40:26

Perfect score: 1204 (without alignment)
Sequence: 1 MGMTRLVLTALLGLMMV.....FTLQAPRGSRSEPKTKRQR 223
453,871 Million cell updates/secScoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 330775 seqs, 85482512 residues

Total number of hits satisfying chosen parameters: 330775

Minimum DB seq length: 0
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%
Maximum Match 100%Database: Published Applications: AA New.*
Listing first 1500 summaries

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2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US07_NEW_PUB pep.*
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8: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10_NEW_PUB pep.*
Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	225	18.7	187	7	US-11-311-974-1
2	208.5	17.3	176	6	US-10-449-902-38165
3	205	17.0	187	7	US-11-289-102-384
4	205	17.0	187	7	US-11-311-974-2
5	189.5	15.7	181	6	US-10-612-783-4411
6	182.5	15.2	173	6	US-10-612-783-4411
7	175.5	14.6	174	6	US-10-612-783-4411
8	173	14.4	123	6	US-10-449-902-41717
9	168.5	14.0	173	6	US-10-612-783-4412
10	164.5	13.7	176	6	US-10-612-783-4412
11	164.5	13.7	216	6	US-10-612-783-4412
12	160	13.3	216	6	US-10-612-783-4412
13	158.5	13.2	174	6	US-10-449-902-51192
14	157	13.0	176	6	US-10-449-902-51192
15	157	13.0	176	6	US-10-449-902-51192
16	138	11.5	176	6	US-10-612-783-5564
17	93	7.7	166	6	US-10-449-902-41719
18	93	7.7	166	6	US-10-449-902-41719
19	93	7.7	173	6	US-11-056-355B-6259
20	93	7.7	173	6	US-11-056-355B-6259
21	93	7.7	209	6	US-10-953-349-36109
22	87.5	7.3	209	6	US-10-953-349-36109
23	86.5	7.2	189	6	US-10-953-349-36108
24	85.5	7.1	156	6	US-10-449-902-39776
25	85	7.1	273	7	US-11-366-265-666
26	85	7.1	165	6	US-10-953-349-15148
27	85	7.1	165	6	US-11-056-355B-56044
28	85	7.1	181	6	US-10-953-349-15147
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102	71	5.9	484	US-11-056-355B-58660
103	71	5.9	815	US-10-449-902-35665
104	70.5	5.9	184	US-11-123-692-57
105	70.5	5.9	251	US-11-056-355B-81430
106	70.5	5.9	251	US-11-056-355B-81429
107	70.5	5.9	253	US-10-953-349-1087
108	70.5	5.9	394	US-11-056-355B-28156
109	70.5	5.9	394	US-11-056-355B-31746
110	70.5	5.9	394	US-11-056-355B-38562
111	70.5	5.9	394	US-11-056-355B-105084
112	70.5	5.9	394	US-11-056-355B-116323
113	70.5	5.9	460	US-11-056-355B-81428
114	70.5	5.9	532	US-10-953-349-1086
115	70.5	5.9	532	US-11-056-355B-28155
116	70.5	5.9	532	US-11-056-355B-31745
117	70.5	5.9	532	US-11-056-355B-38561
118	70.5	5.9	532	US-11-056-355B-105083
119	70.5	5.9	532	US-11-056-355B-116322
120	70.5	5.9	548	US-11-056-355B-116321
121	70.5	5.9	548	US-10-953-349-1085
122	70.5	5.9	561	US-11-056-355B-28154
123	70.5	5.9	561	US-11-056-355B-31744
124	70.5	5.9	561	US-11-056-355B-38560
125	70.5	5.9	606	US-10-449-902-44068
126	70.5	5.9	606	US-10-526-324-445
127	70.5	5.9	732	US-10-538-228-769
128	70.5	5.9	732	US-10-449-902-47719
129	70.5	5.9	792	US-11-056-355B-19605
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131	70	5.8	354	US-11-197-712-416
132	70	5.8	386	US-11-056-355B-19603
133	70	5.8	542	US-10-507-416A-57
134	70	5.8	542	US-10-507-416A-170
135	70	5.8	858	US-11-056-355B-71417
136	70	5.8	926	US-11-056-355B-71416
137	70	5.8	1109	US-11-056-355B-71415
138	70	5.8	2451	US-10-669-920-908
139	70	5.8	2503	US-10-539-228-723
140	70	5.8	2523	US-10-320-072-60
141	69.5	5.8	196	US-11-056-355B-4113
142	69.5	5.8	211	US-11-056-355B-4113
143	69.5	5.8	246	US-11-155-909-43
144	69.5	5.8	329	US-11-056-355B-53344
145	69.5	5.8	330	US-11-056-355B-53343
146	69.5	5.8	340	US-10-449-902-48956
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149	69	5.7	214	US-11-183-218-55
150	69	5.7	339	US-11-056-355B-99292
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156	69	5.7	415	US-11-056-355B-22664
157	69	5.7	424	US-11-056-355B-22663
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164	68.5	5.7	266	US-11-056-355B-51645
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187	68	5.6	475	US-11-090-997-1250
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192	68	5.6	640	US-10-953-349-31974
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249	66	5.5	517	7	US-11-056-355B-20613	Sequence 20613, A	322	64	5.3	354	6	US-10-612-783-4753	Sequence 4753, Ap
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253	66	5.5	775	6	US-10-571-706-12	Sequence 12, Appl1	326	64	5.3	460	7	US-11-056-355B-47692	Sequence 47692, A
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258	66	5.5	775	6	US-10-571-706-22	Sequence 22, Appl1	331	64	5.3	771	7	US-11-330-403-13419	Sequence 12419, A
259	66	5.5	214	7	US-11-155-444-20	Sequence 20, Appl1	332	64	5.3	993	6	US-10-570-909-57	Sequence 57, Appl1
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262	65.5	5.4	279	6	US-10-805-394-3632	Sequence 3632, Ap	335	63.5	5.3	162	7	US-11-056-355B-6304	Sequence 6304, Ap
263	65.5	5.4	326	6	US-11-366-965-274	Sequence 274, App	336	63.5	5.3	166	6	US-10-953-349-9028	Sequence 9028, Ap
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265	65.5	5.4	402	6	US-10-449-902-45416	Sequence 45416, A	338	63.5	5.3	229	7	US-11-056-355B-100706	Sequence 100706, A
266	65.5	5.4	402	6	US-10-449-902-36928	Sequence 36928, A	339	63.5	5.3	229	7	US-11-056-355B-411945	Sequence 411945, A
267	65.5	5.4	402	6	US-10-449-902-56328	Sequence 56328, A	340	63.5	5.3	232	7	US-11-106-762-23	Sequence 23, Appl1
268	65.5	5.4	421	6	US-10-449-902-42754	Sequence 42754, A	341	63.5	5.3	232	7	US-11-106-762-23	Sequence 23, Appl1
269	65.5	5.4	427	6	US-10-935-291B-3	Sequence 3, Appl1	342	63.5	5.3	277	7	US-11-291-698A-56	Sequence 56, Appl1
270	65.5	5.4	450	6	US-10-526-324-269	Sequence 269, Appl1	343	63.5	5.3	292	7	US-11-056-355B-85912	Sequence 85912, A
271	65.5	5.4	524	7	US-11-293-697-3442	Sequence 3442, Ap	344	63.5	5.3	292	7	US-11-056-355B-40686	Sequence 40686, A
272	65.5	5.4	611	6	US-10-528-563-12	Sequence 12, Appl1	345	63.5	5.3	292	7	US-11-056-355B-42306	Sequence 42306, A
273	65.5	5.4	1265	6	US-10-528-563-12	Sequence 12, Appl1	346	63.5	5.3	292	7	US-11-056-355B-42306	Sequence 42306, A
274	65.5	5.4	1265	6	US-10-612-783-6924	Sequence 6924, Ap	347	63.5	5.3	298	7	US-11-056-355B-85911	Sequence 85911, A
275	65	5.4	197	6	US-10-526-324-1439	Sequence 1439, Ap	348	63.5	5.3	299	7	US-11-056-355B-77334	Sequence 77334, A
276	65	5.4	221	7	US-11-293-697-3455	Sequence 3455, Ap	349	63.5	5.3	299	7	US-11-056-355B-40685	Sequence 40685, A
277	65	5.4	261	7	US-11-056-355B-55667	Sequence 55667, A	350	63.5	5.3	299	7	US-11-056-355B-40685	Sequence 40685, A
278	65	5.4	277	6	US-10-953-349-35560	Sequence 35560, A	351	63.5	5.3	299	7	US-11-056-355B-41522	Sequence 41522, A
279	65	5.4	279	6	US-10-953-349-35559	Sequence 35559, A	352	63.5	5.3	299	7	US-11-056-355B-42305	Sequence 42305, A
280	65	5.4	306	7	US-11-181-115-47	Sequence 47, Appl1	353	63.5	5.3	299	7	US-11-056-355B-74315	Sequence 74315, A
281	65	5.4	392	7	US-11-174-307B-3414	Sequence 3414, Ap	354	63.5	5.3	299	7	US-11-056-355B-74318	Sequence 74318, A
282	65	5.4	430	7	US-11-144-877-165	Sequence 165, App	355	63.5	5.3	314	7	US-11-056-355B-27353	Sequence 27353, A
283	65	5.4	444	7	US-11-174-307B-3704	Sequence 3704, Ap	356	63.5	5.3	314	7	US-11-056-355B-40111	Sequence 40111, A
284	65	5.4	446	7	US-11-056-355B-97492	Sequence 97492, A	357	63.5	5.3	314	7	US-11-056-355B-40694	Sequence 40694, A
285	65	5.4	546	7	US-11-056-355B-108731	Sequence 108731, A	358	63.5	5.3	314	7	US-11-056-355B-41521	Sequence 41521, A
286	65	5.4	590	6	US-10-669-920-110	Sequence 110, App	359	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
287	65	5.4	618	6	US-10-669-920-110	Sequence 110, App	360	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
288	65	5.4	1155	7	US-11-056-355B-86625	Sequence 86625, A	361	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
289	65	5.4	1264	7	US-11-056-355B-86624	Sequence 86624, A	362	63.5	5.3	323	7	US-11-056-355B-9703	Sequence 9703, A
290	65	5.4	1284	7	US-11-056-355B-86623	Sequence 86623, A	363	63.5	5.3	323	7	US-11-056-355B-40140	Sequence 40140, A
291	65	5.4	1420	7	US-11-283-328-156	Sequence 156, App	364	63.5	5.3	333	7	US-11-056-355B-85910	Sequence 85910, A
292	65	5.4	1420	7	US-11-283-328-156	Sequence 156, App	365	63.5	5.3	346	7	US-11-056-355B-85910	Sequence 85910, A
293	64.5	5.4	76	7	US-11-056-355B-14794	Sequence 14794, A	366	63.5	5.3	364	6	US-10-805-394-4244	Sequence 4244, Ap
294	64.5	5.4	105	6	US-11-056-355B-14793	Sequence 14793, A	367	63.5	5.3	364	7	US-11-056-355B-41520	Sequence 41520, A
295	64.5	5.4	138	6	US-10-449-902-44472	Sequence 44472, A	368	63.5	5.3	398	7	US-11-174-307B-5068	Sequence 5068, Ap
296	64.5	5.4	166	6	US-10-953-349-40093	Sequence 40093, A	369	63.5	5.3	425	7	US-11-056-355B-100537	Sequence 100537, A
297	64.5	5.4	175	6	US-10-805-394-6309	Sequence 6309, Ap	370	63.5	5.3	425	7	US-11-056-355B-111776	Sequence 111776, A
298	64.5	5.4	213	6	US-10-553-938-67	Sequence 67, Appl1	371	63.5	5.3	516	7	US-11-056-355B-100536	Sequence 100536, A
299	64.5	5.4	218	7	US-11-254-182-38	Sequence 38, Appl1	372	63.5	5.3	516	7	US-11-056-355B-111775	Sequence 111775, A
300	64.5	5.4	573	6	US-10-374-780A-2784	Sequence 2784, Ap	373	63.5	5.3	518	7	US-11-366-965-297	Sequence 297, App
301	64.5	5.4	609	7	US-11-366-965-4	Sequence 4, Appl1	374	63.5	5.3	526	7	US-11-056-355B-100535	Sequence 100535, A
302	64.5	5.4	640	6	US-10-448-902-55562	Sequence 55562, A	375	63.5	5.3	526	7	US-11-056-355B-111774	Sequence 111774, A
303	64.5	5.4	717	7	US-11-056-355B-48874	Sequence 48874, A	376	63.5	5.3	637	7	US-11-317-847A-124	Sequence 124, App
304	64.5	5.4	779	7	US-11-056-355B-92000	Sequence 92000, A	377	63.5	5.3	651	7	US-11-300-577-2	Sequence 2, Appl1
305	64.5	5.4	787	7	US-11-056-355B-44873	Sequence 44873, A	378	63.5	5.3	691	7	US-11-317-847A-126	Sequence 126, App
306	64.5	5.4	811	7	US-11-056-355B-74245	Sequence 74245, A	379	63.5	5.3	831	7	US-11-330-403-17220	Sequence 17220, A
307	64.5	5.4	812	6	US-10-449-902-42967	Sequence 42967, A	380	63.5	5.3	947	6	US-10-449-902-41153	Sequence 41153, A
308	64.5	5.4	830	6	US-11-056-355B-44872	Sequence 44872, A	381	63.5	5.3	1399	7	US-11-330-403-426	Sequence 2426, Ap
309	64.5	5.4	916	7	US-11-056-355B-49199	Sequence 49199, A	382	63.5	5.3	1399	7	US-11-330-403-426	Sequence 2426, Ap
310	64.5	5.4	939	7	US-11-056-355B-91918	Sequence 91918, A	383	63.5	5.3	1429	6	US-10-449-902-426	Sequence 2426, Ap
311	64.5	5.4	948	7	US-11-056-355B-74244	Sequence 74244, A	384	63.5	5.3	1429	6	US-10-511-937-6931	Sequence 2934, Ap
312	64.5	5.4	971	7	US-11-056-355B-74243	Sequence 74243, A	385	63.5	5.3	2627	6	US-10-547-530-5	Sequence 5, Appl1
313	64.5	5.4	1094	7	US-11-330-403-10129	Sequence 10129, A	386	63.5	5.3	2627	6	US-10-547-530-5	Sequence 5, Appl1
314	64	5.3	152	7	US-11-056-355B-76201	Sequence 76201, A	387	63	5.2	214	7	US-11-221-902-5	Sequence 5, Appl1
315	64	5.3	186	7	US-11-056-355B-76200	Sequence 76200, A	388	63	5.2	214	7	US-11-221-902-7	Sequence 7, Appl1
316	64	5.3	200	7	US-11-056-355B-76199	Sequence 76199, A	389	63	5.2	214	7	US-11-221-902-9	Sequence 9, Appl1
317	64	5.3	214	7	US-11-221-902-11	Sequence 11, Appl1	390	63	5.2	228	6	US-10-449-902-13015	Sequence 43015, A
318	64	5.3	233	7	US-11-330-403-3292	Sequence 3292, Ap	391	63	5.2	248	7	US-11-056-355B-65059	Sequence 65059, A

392	63	5.2	320	7	US-11-056-355B-65058	Sequence 65058, A	465	62.5	5.2	1413	6	US-10-612-783-6669	Sequence 6669, App
393	63	5.2	392	7	US-11-330-403-3345	Sequence 3345, App	466	62.5	5.2	3595	7	US-11-063-439-264	Sequence 264, App
394	63	5.2	394	7	US-11-056-355B-26471	Sequence 26471, A	467	62.5	5.2	3595	7	US-11-063-439-261	Sequence 261, App
395	63	5.2	394	7	US-11-056-355B-30359	Sequence 30359, A	468	62.5	5.2	3599	7	US-11-063-439-779	Sequence 271, App
396	63	5.2	394	7	US-11-056-355B-33949	Sequence 33949, A	469	62.5	5.2	3600	7	US-11-063-439-762	Sequence 262, App
397	63	5.2	394	7	US-11-056-355B-103375	Sequence 103375, A	470	62.5	5.2	3603	7	US-11-063-439-889	Sequence 289, App
398	63	5.2	394	7	US-11-056-355B-114614	Sequence 114614, A	471	62	5.1	192	7	US-11-056-355B-82439	Sequence 82439, A
399	63	5.2	405	6	US-10-449-902-38303	Sequence 38303, A	472	62	5.1	196	7	US-11-056-355B-82438	Sequence 82438, A
400	63	5.2	405	6	US-10-449-902-49808	Sequence 49808, A	473	62	5.1	206	7	US-11-056-355B-82437	Sequence 82437, A
401	63	5.2	484	7	US-11-330-403-4351	Sequence 4351, App	474	62	5.1	253	7	US-11-056-355B-2543	Sequence 2543, App
402	63	5.2	485	7	US-11-293-697-2858	Sequence 2858, App	475	62	5.1	252	7	US-11-056-355B-2543	Sequence 2543, App
403	63	5.2	498	6	US-10-505-928-696	Sequence 696, App	476	62	5.1	271	7	US-11-330-403-8657	Sequence 8657, App
404	63	5.2	530	7	US-11-056-355B-66470	Sequence 26470, App	477	62	5.1	272	7	US-11-056-355B-103393	Sequence 2893, A
405	63	5.2	530	7	US-11-056-355B-30358	Sequence 30358, A	478	62	5.1	272	7	US-11-056-355B-103376	Sequence 103376, A
406	63	5.2	530	7	US-11-056-355B-33948	Sequence 33948, A	479	62	5.1	272	7	US-11-056-355B-115376	Sequence 115376, A
407	63	5.2	530	7	US-11-056-355B-103374	Sequence 103374, A	480	62	5.1	272	7	US-11-056-355B-125377	Sequence 25377, A
408	63	5.2	530	7	US-11-056-355B-114613	Sequence 114613, A	481	62	5.1	284	6	US-10-449-902-88157	Sequence 38157, A
409	63	5.2	545	7	US-11-056-355B-20002	Sequence 20002, A	482	62	5.1	284	6	US-11-056-355B-23892	Sequence 23892, A
410	63	5.2	567	7	US-11-056-355B-26469	Sequence 26469, A	483	62	5.1	284	7	US-11-056-355B-104136	Sequence 104136, A
411	63	5.2	567	7	US-11-056-355B-30357	Sequence 30357, A	484	62	5.1	284	7	US-11-056-355B-115375	Sequence 115375, A
412	63	5.2	567	7	US-11-056-355B-33947	Sequence 33947, A	485	62	5.1	286	7	US-11-056-355B-25376	Sequence 25376, A
413	63	5.2	567	7	US-11-056-355B-103373	Sequence 103373, A	486	62	5.1	300	6	US-10-449-902-26087	Sequence 56087, A
414	63	5.2	567	7	US-11-056-355B-114612	Sequence 114612, A	487	62	5.1	302	7	US-11-056-355B-23891	Sequence 23891, A
415	63	5.2	660	7	US-11-330-403-15209	Sequence 15209, A	488	62	5.1	354	7	US-11-197-712-385	Sequence 385, App
416	63	5.2	666	7	US-11-090-997-740	Sequence 740, App	489	62	5.1	364	6	US-10-612-783-1685	Sequence 3685, App
417	63	5.2	668	7	US-11-056-355B-96810	Sequence 96810, A	490	62	5.1	369	7	US-11-056-355B-15643	Sequence 15643, A
418	63	5.2	686	7	US-11-056-355B-96809	Sequence 96809, A	491	62	5.1	389	7	US-11-056-355B-15642	Sequence 15642, A
419	63	5.2	738	7	US-11-056-355B-96808	Sequence 96808, A	492	62	5.1	419	7	US-11-056-355B-15641	Sequence 15641, A
420	63	5.2	748	7	US-11-330-403-11752	Sequence 11752, A	493	62	5.1	422	6	US-10-449-902-88907	Sequence 48907, A
421	63	5.2	763	7	US-11-123-692-33	Sequence 33, App1	494	62	5.1	436	6	US-11-330-403-11345	Sequence 11345, A
422	63	5.2	770	7	US-11-123-692-34	Sequence 34, App1	495	62	5.1	449	6	US-10-530-837-12	Sequence 12, App1
423	63	5.2	774	7	US-11-123-692-34	Sequence 34, App1	496	62	5.1	461	7	US-11-330-403-17837	Sequence 17837, A
424	63	5.2	983	6	US-10-484-603-15	Sequence 15, App1	497	62	5.1	512	6	US-10-449-902-80821	Sequence 50821, A
425	63	5.2	1085	7	US-11-242-079-5	Sequence 5, App11	498	62	5.1	519	7	US-11-368-595-66	Sequence 66, App1
426	63	5.2	1614	7	US-11-090-997-1246	Sequence 1246, App	499	62	5.1	535	7	US-11-422-963-18	Sequence 18, App1
427	63	5.2	1670	7	US-11-090-997-1242	Sequence 1242, App	500	62	5.1	535	7	US-11-422-969-18	Sequence 18, App1
428	63	5.2	1683	7	US-11-090-997-1240	Sequence 1240, App	501	62	5.1	553	7	US-11-330-403-1906	Sequence 1906, App
429	62.5	5.2	122	7	US-11-330-403-3132	Sequence 3132, App	502	62	5.1	588	7	US-11-330-403-14209	Sequence 14209, A
430	62.5	5.2	161	7	US-11-056-355B-65060	Sequence 65060, A	503	62	5.1	631	6	US-10-449-902-82582	Sequence 52582, A
431	62.5	5.2	184	7	US-11-123-692-80	Sequence 80, App1	504	62	5.1	731	6	US-10-805-394-4854	Sequence 4854, App
432	62.5	5.2	217	7	US-11-056-355B-1970	Sequence 1970, App	505	62	5.1	847	6	US-10-449-902-109540	Sequence 39944, A
433	62.5	5.2	244	6	US-10-511-937-2598	Sequence 2598, App	506	62	5.1	911	6	US-10-449-902-90530	Sequence 50530, A
434	62.5	5.2	277	7	US-11-056-355B-1969	Sequence 1969, App	507	62	5.1	1130	7	US-11-248-956-1	Sequence 1, App1
435	62.5	5.2	295	7	US-11-330-403-4589	Sequence 4589, App	508	62	5.1	1130	7	US-11-191-644-9	Sequence 9, App11
436	62.5	5.2	295	7	US-11-330-403-18254	Sequence 18254, App	509	62	5.1	1130	7	US-11-350-891-2	Sequence 2, App11
437	62.5	5.2	296	7	US-11-330-403-16841	Sequence 16841, A	510	62	5.1	1149	7	US-11-350-891-4	Sequence 4, App11
438	62.5	5.2	315	7	US-11-056-355B-1968	Sequence 1968, App	511	62	5.1	1149	7	US-11-191-644-10	Sequence 10, App11
439	62.5	5.2	329	7	US-11-056-355B-60256	Sequence 60256, A	512	62	5.1	1671	6	US-10-526-324-2	Sequence 2, App11
440	62.5	5.2	333	6	US-10-449-902-36610	Sequence 36610, A	513	62	5.1	1865	7	US-11-247-437-8	Sequence 8, App11
441	62.5	5.2	361	7	US-11-056-355B-60255	Sequence 60255, A	514	62	5.1	2006	7	US-11-191-644-14	Sequence 14, App11
442	62.5	5.2	389	7	US-11-330-403-1375	Sequence 1375, App	515	62	5.1	2031	7	US-11-191-644-16	Sequence 16, App11
443	62.5	5.2	519	7	US-11-330-403-17401	Sequence 17401, A	516	61.5	5.1	96	6	US-10-953-349-12849	Sequence 12849, A
444	62.5	5.2	531	6	US-10-449-902-51994	Sequence 51994, A	517	61.5	5.1	161	6	US-10-449-902-10246	Sequence 30446, A
445	62.5	5.2	531	6	US-10-449-902-56027	Sequence 56027, A	518	61.5	5.1	161	6	US-10-449-902-15190	Sequence 51940, A
446	62.5	5.2	560	6	US-10-612-783-3568	Sequence 3568, App	519	61.5	5.1	171	6	US-10-449-902-16609	Sequence 36609, A
447	62.5	5.2	563	7	US-11-338-733-66	Sequence 66, App1	520	61.5	5.1	171	6	US-10-449-902-10547	Sequence 40547, A
448	62.5	5.2	589	6	US-10-544-180-8	Sequence 8, App11	521	61.5	5.1	173	6	US-10-953-349-1709	Sequence 3709, App
449	62.5	5.2	589	7	US-11-056-355B-83503	Sequence 83503, A	522	61.5	5.1	173	6	US-10-526-324-1487	Sequence 1487, App
450	62.5	5.2	630	7	US-11-056-355B-73292	Sequence 73292, A	523	61.5	5.1	184	7	US-11-123-692-11	Sequence 11, App1
451	62.5	5.2	641	6	US-10-449-902-31519	Sequence 31519, A	524	61.5	5.1	199	6	US-10-953-349-13553	Sequence 33553, A
452	62.5	5.2	641	6	US-10-449-902-41230	Sequence 41230, A	525	61.5	5.1	205	7	US-11-330-403-14279	Sequence 14279, A
453	62.5	5.2	641	6	US-10-449-902-43053	Sequence 43053, A	526	61.5	5.1	221	6	US-10-953-349-1708	Sequence 3708, App
454	62.5	5.2	641	6	US-10-449-902-45026	Sequence 45026, A	527	61.5	5.1	223	7	US-11-365-556-105	Sequence 305, App
455	62.5	5.2	641	6	US-10-449-902-56109	Sequence 56109, A	528	61.5	5.1	268	6	US-10-805-394-8922	Sequence 4922, App
456	62.5	5.2	641	7	US-11-056-355B-75635	Sequence 75635, A	529	61.5	5.1	278	6	US-10-953-349-62014	Sequence 29884, A
457	62.5	5.2	641	7	US-11-056-355B-75635	Sequence 75635, A	530	61.5	5.1	278	6	US-10-953-349-13352	Sequence 62119, A
458	62.5	5.2	644	6	US-10-449-902-53973	Sequence 53973, A	531	61.5	5.1	279	6	US-10-953-349-83761	Sequence 33532, A
459	62.5	5.2	646	7	US-11-056-355B-73290	Sequence 73290, A	532	61.5	5.1	289	7	US-11-330-403-13761	Sequence 13761, A
460	62.5	5.2	646	7	US-11-056-355B-75634	Sequence 75634, A	533	61.5	5.1	297	6	US-10-449-902-80729	Sequence 50729, A
461	62.5	5.2	655	6	US-10-449-902-44836	Sequence 44836, A	534	61.5	5.1	309	6	US-10-953-349-37077	Sequence 37077, App
462	62.5	5.2	688	6	US-10-374-780A-943	Sequence 943, App	535	61.5	5.1	323	6	US-10-953-349-33511	Sequence 33531, App
463	62.5	5.2	701	7	US-11-056-355B-75633	Sequence 75633, A	536	61.5	5.1	343	6	US-10-449-902-16800	Sequence 36800, A
464	62.5	5.2	1064	6	US-10-700-439-142	Sequence 142, App	537	61.5	5.1	351	6	US-10-953-349-17104	Sequence 17104, A

538	61.5	5.1	351	7	US-11-056-355B-53805	Sequence 53805, A	611	61	5.1	501	6	US-10-953-349-32435	Sequence 32435, A
539	61.5	5.1	361	6	US-10-953-349-17103	Sequence 17103, A	612	61	5.1	501	7	US-11-056-355B-65740	Sequence 65740, A
540	61.5	5.1	361	7	US-11-056-355B-53804	Sequence 53804, A	613	61	5.1	506	7	US-11-434-137-1404	Sequence 1404, A
541	61.5	5.1	369	6	US-10-953-349-21836	Sequence 21836, A	614	61	5.1	506	7	US-11-434-184-1404	Sequence 1404, A
542	61.5	5.1	369	7	US-11-056-355B-59061	Sequence 59061, A	615	61	5.1	506	7	US-11-434-199-1404	Sequence 1404, A
543	61.5	5.1	387	6	US-10-449-902-45662	Sequence 45662, A	616	61	5.1	506	7	US-11-434-203-1404	Sequence 1404, A
544	61.5	5.1	402	6	US-10-449-902-51710	Sequence 51710, A	617	61	5.1	508	6	US-10-953-349-32434	Sequence 32434, A
545	61.5	5.1	410	6	US-10-953-349-21835	Sequence 21835, A	618	61	5.1	508	6	US-11-056-355B-65739	Sequence 65739, A
546	61.5	5.1	410	7	US-11-056-355B-53803	Sequence 53803, A	619	61	5.1	530	6	US-10-953-349-32433	Sequence 32433, A
547	61.5	5.1	410	7	US-11-056-355B-59060	Sequence 59060, A	620	61	5.1	530	6	US-11-056-355B-65738	Sequence 65738, A
548	61.5	5.1	438	6	US-10-953-349-21834	Sequence 21834, A	621	61	5.1	698	6	US-10-449-902-53545	Sequence 53545, A
549	61.5	5.1	438	7	US-11-056-355B-59059	Sequence 59059, A	622	61	5.1	709	7	US-11-056-355B-72446	Sequence 72446, A
550	61.5	5.1	507	6	US-10-805-394-6732	Sequence 6732, A	623	61	5.1	751	7	US-11-330-403-2688	Sequence 2688, A
551	61.5	5.1	561	6	US-10-612-783-6983	Sequence 6983, A	624	61	5.1	778	7	US-11-056-355B-72445	Sequence 72445, A
552	61.5	5.1	569	7	US-11-317-260-22	Sequence 22, A	625	61	5.1	778	7	US-11-056-355B-102958	Sequence 102958, A
553	61.5	5.1	569	7	US-11-317-260-22	Sequence 22, A	626	61	5.1	778	7	US-11-056-355B-114197	Sequence 114197, A
554	61.5	5.1	627	6	US-10-449-902-37692	Sequence 37692, A	627	61	5.1	803	7	US-11-056-355B-72444	Sequence 72444, A
555	61.5	5.1	633	6	US-10-516-094-9	Sequence 9, A	628	61	5.1	803	7	US-11-056-355B-102957	Sequence 102957, A
556	61.5	5.1	775	7	US-11-327-195-31	Sequence 31, A	629	61	5.1	803	7	US-11-056-355B-114196	Sequence 114196, A
557	61.5	5.1	775	7	US-11-327-195-31	Sequence 31, A	630	61	5.1	890	7	US-11-056-355B-102956	Sequence 102956, A
558	61.5	5.1	775	7	US-11-327-845-30	Sequence 30, A	631	61	5.1	890	7	US-11-056-355B-114195	Sequence 114195, A
559	61.5	5.1	832	6	US-10-449-902-53181	Sequence 53181, A	632	61	5.1	1003	6	US-10-669-920-855	Sequence 855, A
560	61.5	5.1	837	7	US-11-327-195-27	Sequence 27, A	633	61	5.1	1014	6	US-10-669-920-857	Sequence 857, A
561	61.5	5.1	837	7	US-11-327-845-27	Sequence 27, A	634	61	5.1	1014	6	US-11-333-450-39	Sequence 39, A
562	61.5	5.1	839	7	US-11-327-195-24	Sequence 24, A	635	61	5.1	1020	6	US-10-539-228-810	Sequence 810, A
563	61.5	5.1	839	7	US-11-327-845-24	Sequence 24, A	636	61	5.1	1048	6	US-10-539-228-810	Sequence 810, A
564	61.5	5.1	844	6	US-10-612-783-6582	Sequence 6582, A	637	61	5.1	1221	7	US-11-056-355B-91165	Sequence 91165, A
565	61.5	5.1	845	7	US-11-327-845-50	Sequence 50, A	638	61	5.1	1221	7	US-11-056-355B-94921	Sequence 94921, A
566	61.5	5.1	857	7	US-11-327-195-26	Sequence 26, A	639	61	5.1	1221	7	US-11-056-355B-91164	Sequence 91164, A
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568	61.5	5.1	859	7	US-11-327-195-23	Sequence 23, A	641	61	5.1	1235	7	US-11-056-355B-91163	Sequence 91163, A
569	61.5	5.1	859	7	US-11-327-845-23	Sequence 23, A	642	61	5.1	1248	7	US-11-056-355B-94919	Sequence 94919, A
570	61.5	5.1	865	7	US-11-327-845-49	Sequence 49, A	643	61	5.1	2053	6	US-10-539-228-807	Sequence 807, A
571	61.5	5.1	933	6	US-10-612-783-7040	Sequence 7040, A	644	61	5.1	2053	6	US-10-669-920-850	Sequence 850, A
572	61.5	5.1	1003	6	US-11-330-403-11882	Sequence 11882, A	645	61	5.1	3020	6	US-11-140-4874-772	Sequence 772, A
573	61.5	5.1	1017	6	US-10-449-902-41492	Sequence 41492, A	646	61	5.1	180	6	US-10-505-928-648	Sequence 648, A
574	61.5	5.1	2069	6	US-10-805-394-4320	Sequence 4320, A	647	60.5	5.0	205	6	US-10-449-902-6669	Sequence 6669, A
575	61.5	5.1	112	6	US-10-449-902-52913	Sequence 52913, A	648	60.5	5.0	205	7	US-11-240-821-99	Sequence 99, A
576	61.5	5.1	178	6	US-10-526-324-1812	Sequence 1812, A	649	60.5	5.0	238	7	US-10-526-741-18	Sequence 741, A
577	61.5	5.1	211	6	US-10-449-902-37579	Sequence 37579, A	650	60.5	5.0	238	7	US-11-414-676-18	Sequence 676, A
578	61.5	5.1	233	7	US-11-219-563-110	Sequence 110, A	651	60.5	5.0	248	6	US-10-953-349-5513	Sequence 5513, A
579	61.5	5.1	234	6	US-10-526-741-22	Sequence 22, A	652	60.5	5.0	318	6	US-10-449-902-10336	Sequence 10336, A
580	61.5	5.1	234	7	US-11-414-676-22	Sequence 22, A	653	60.5	5.0	347	7	US-10-449-902-80776	Sequence 80776, A
581	61.5	5.1	238	6	US-10-526-741-20	Sequence 20, A	654	60.5	5.0	358	6	US-10-953-349-2503	Sequence 2503, A
582	61.5	5.1	238	7	US-11-414-676-20	Sequence 20, A	655	60.5	5.0	384	6	US-11-056-355B-57088	Sequence 57088, A
583	61.5	5.1	239	7	US-11-211-917-56	Sequence 56, A	656	60.5	5.0	391	6	US-10-612-783-6292	Sequence 6292, A
584	61.5	5.1	239	7	US-11-293-697-4028	Sequence 4028, A	657	60.5	5.0	399	6	US-10-612-783-6843	Sequence 6843, A
585	61.5	5.1	257	7	US-11-056-355B-4176	Sequence 4176, A	658	60.5	5.0	400	7	US-11-056-355B-57087	Sequence 57087, A
586	61.5	5.1	267	6	US-10-953-349-12109	Sequence 12109, A	659	60.5	5.0	400	7	US-11-330-403-1143	Sequence 1143, A
587	61.5	5.1	268	7	US-11-330-403-3804	Sequence 3804, A	660	60.5	5.0	420	7	US-11-056-355B-80775	Sequence 80775, A
588	61.5	5.1	275	7	US-11-330-403-3651	Sequence 3651, A	661	60.5	5.0	438	6	US-10-953-349-4502	Sequence 4502, A
589	61.5	5.1	286	6	US-10-953-349-3040	Sequence 3040, A	662	60.5	5.0	462	6	US-10-449-902-53939	Sequence 53939, A
590	61.5	5.1	292	6	US-10-527-788-64	Sequence 64, A	663	60.5	5.0	466	6	US-10-449-902-51633	Sequence 51633, A
591	61.5	5.1	319	6	US-10-449-902-31957	Sequence 31957, A	664	60.5	5.0	486	6	US-10-953-349-2501	Sequence 2501, A
592	61.5	5.1	319	6	US-10-449-902-56772	Sequence 56772, A	665	60.5	5.0	520	7	US-11-056-355B-80774	Sequence 80774, A
593	61.5	5.1	349	6	US-10-449-902-48361	Sequence 48361, A	666	60.5	5.0	524	6	US-10-449-902-66284	Sequence 66284, A
594	61.5	5.1	362	6	US-10-953-349-20340	Sequence 20340, A	667	60.5	5.0	561	7	US-11-339-192-19	Sequence 19, A
595	61.5	5.1	362	6	US-11-056-355B-55302	Sequence 55302, A	668	60.5	5.0	574	6	US-10-953-349-12942	Sequence 12942, A
596	61.5	5.1	382	6	US-10-374-780A-2534	Sequence 2534, A	669	60.5	5.0	581	7	US-10-953-349-12416	Sequence 12416, A
597	61.5	5.1	386	7	US-11-330-403-6784	Sequence 6784, A	670	60.5	5.0	582	7	US-11-330-403-15547	Sequence 15547, A
598	61.5	5.1	400	6	US-10-953-349-40339	Sequence 40339, A	671	60.5	5.0	632	7	US-11-293-697-3683	Sequence 3683, A
599	61.5	5.1	400	7	US-11-056-355B-55301	Sequence 55301, A	672	60.5	5.0	607	6	US-10-449-902-47339	Sequence 47339, A
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602	61.5	5.1	464	6	US-10-953-349-20695	Sequence 20695, A	675	60.5	5.0	632	7	US-11-056-355B-11361	Sequence 11361, A
603	61.5	5.1	464	6	US-11-056-355B-59100	Sequence 59100, A	676	60.5	5.0	637	7	US-11-245-628-6	Sequence 6, A
604	61.5	5.1	468	6	US-10-449-902-40789	Sequence 40789, A	677	60.5	5.0	636	6	US-10-953-349-12941	Sequence 12941, A
605	61.5	5.1	472	7	US-11-056-355B-76473	Sequence 76473, A	678	60.5	5.0	637	7	US-11-056-355B-11360	Sequence 11360, A
606	61.5	5.1	473	6	US-10-805-394-4489	Sequence 4489, A	679	60.5	5.0	638	6	US-10-953-349-12940	Sequence 12940, A
607	61.5	5.1	475	6	US-10-953-349-20694	Sequence 20694, A	680	60.5	5.0	664	7	US-11-056-355B-13559	Sequence 13559, A
608	61.5	5.1	475	6	US-11-056-355B-59099	Sequence 59099, A	681	60.5	5.0	794	7	US-11-330-403-14530	Sequence 14530, A
609	61.5	5.1	492	6	US-10-953-349-20693	Sequence 20693, A	682	60.5	5.0	808	7	US-11-056-355B-73416	Sequence 73416, A
610	61.5	5.1	492	7	US-11-056-355B-59098	Sequence 59098, A	683	60.5	5.0	832	7	US-11-056-355B-73415	Sequence 73415, A

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685	60.5	5.0	883	7	US-11-056-355B-73414	Sequence 73414, A	758	60	5.0	856	6	US-10-449-902-46587	Sequence 46587, A
686	60.5	5.0	966	7	US-11-056-355B-73264	Sequence 73264, A	759	60	5.0	876	7	US-11-056-355B-70131	Sequence 70131, A
687	60.5	5.0	976	7	US-11-056-355B-73263	Sequence 73263, A	760	60	5.0	923	6	US-11-056-355B-75609	Sequence 75609, A
688	60.5	5.0	978	7	US-11-056-355B-73262	Sequence 73262, A	761	60	5.0	927	6	US-10-449-902-13750	Sequence 43750, A
689	60.5	5.0	985	7	US-11-330-403-15349	Sequence 15349, A	762	60	5.0	928	6	US-10-449-902-11155	Sequence 41155, A
690	60.5	5.0	992	7	US-11-090-997-11440	Sequence 1340, Ap	763	60	5.0	929	7	US-11-056-355B-75608	Sequence 75608, A
691	60.5	5.0	992	7	US-11-090-997-11440	Sequence 1340, Ap	764	60	5.0	976	7	US-11-056-355B-75607	Sequence 75607, A
692	60.5	5.0	1226	7	US-11-221-332-88	Sequence 1344, Ap	765	60	5.0	977	7	US-11-330-403-12162	Sequence 12162, A
693	60.5	5.0	1337	7	US-11-165-586-53	Sequence 88, Appl	766	60	5.0	998	6	US-10-524-505-3	Sequence 3, Appl1
694	60.5	5.0	1483	7	US-11-090-997-1338	Sequence 1338, Ap	767	60	5.0	1012	6	US-11-330-403-1902	Sequence 1902, Ap
695	60.5	5.0	1485	7	US-11-090-997-1330	Sequence 1330, Ap	768	60	5.0	1012	7	US-11-330-403-11736	Sequence 11736, A
696	60.5	5.0	1862	7	US-11-090-997-1342	Sequence 1334, Ap	769	60	5.0	1383	7	US-11-330-403-14374	Sequence 14374, A
697	60.5	5.0	1863	7	US-11-090-997-1334	Sequence 1334, Ap	770	60	5.0	1431	6	US-10-833-833-127	Sequence 127, App
698	60.5	5.0	1863	7	US-11-090-997-1336	Sequence 1336, Ap	771	60	5.0	1444	6	US-10-833-833-130	Sequence 130, App
699	60.5	5.0	1914	7	US-11-090-997-1332	Sequence 1332, Ap	772	60	5.0	1912	6	US-10-511-937-1561	Sequence 2561, Ap
700	60	5.0	88	6	US-10-471-571A-1880	Sequence 1880, Ap	773	60	5.0	1935	6	US-10-480-962-6	Sequence 6, Appl1
701	60	5.0	116	6	US-10-449-902-48835	Sequence 48835, A	774	60	5.0	3195	6	US-11-330-403-18988	Sequence 18988, A
702	60	5.0	146	7	US-11-056-355B-2238	Sequence 2238, Ap	775	59.5	4.9	146	6	US-10-953-349-39946	Sequence 39946, A
703	60	5.0	162	7	US-11-056-355B-2237	Sequence 2237, Ap	776	59.5	4.9	177	6	US-10-953-349-39945	Sequence 39945, A
704	60	5.0	184	7	US-11-123-692-98	Sequence 98, Appl	777	59.5	4.9	182	7	US-11-384-041-111	Sequence 11, Appl1
705	60	5.0	188	6	US-10-449-902-55626	Sequence 55626, A	778	59.5	4.9	184	6	US-10-953-349-19944	Sequence 3944, A
706	60	5.0	206	7	US-11-056-355B-2236	Sequence 2236, Ap	779	59.5	4.9	184	6	US-10-532-740-22	Sequence 22, Appl
707	60	5.0	210	7	US-11-330-403-1037	Sequence 1037, Ap	780	59.5	4.9	184	7	US-11-123-692-73	Sequence 73, Appl1
708	60	5.0	213	6	US-10-822-231-3	Sequence 3, Appl1	781	59.5	4.9	184	7	US-11-123-692-81	Sequence 81, Appl1
709	60	5.0	213	7	US-11-174-287-6	Sequence 6, Appl1	782	59.5	4.9	184	7	US-11-123-692-83	Sequence 83, Appl1
710	60	5.0	213	7	US-11-256-060-16	Sequence 16, Appl1	783	59.5	4.9	184	7	US-11-123-692-105	Sequence 105, App
711	60	5.0	213	7	US-11-274-452-1	Sequence 1, Appl1	784	59.5	4.9	194	6	US-10-612-783-6814	Sequence 6814, Ap
712	60	5.0	219	6	US-10-449-902-29373	Sequence 29373, A	785	59.5	4.9	213	6	US-10-515-429-73	Sequence 73, Appl1
713	60	5.0	236	7	US-11-375-221-20	Sequence 20, Appl1	786	59.5	4.9	213	6	US-10-449-902-16500	Sequence 46500, A
714	60	5.0	239	7	US-11-211-917-64	Sequence 64, Appl1	787	59.5	4.9	214	7	US-11-221-902-1	Sequence 1, Appl1
715	60	5.0	239	7	US-11-211-917-102	Sequence 102, Appl1	788	59.5	4.9	214	7	US-11-221-902-3	Sequence 3, Appl1
716	60	5.0	244	6	US-10-953-349-24781	Sequence 24781, A	789	59.5	4.9	214	7	US-11-197-665-26	Sequence 26, Appl1
717	60	5.0	244	6	US-10-953-349-24908	Sequence 24908, A	790	59.5	4.9	214	7	US-11-197-665-30	Sequence 30, Appl1
718	60	5.0	244	6	US-11-056-355B-52415	Sequence 52415, A	791	59.5	4.9	216	6	US-10-574-398-885	Sequence 285, App
719	60	5.0	282	6	US-10-953-349-24780	Sequence 24780, A	792	59.5	4.9	239	6	US-10-449-902-30433	Sequence 30433, A
720	60	5.0	293	7	US-11-330-403-2403	Sequence 2403, Ap	793	59.5	4.9	239	6	US-10-449-902-33744	Sequence 53744, A
721	60	5.0	295	7	US-11-274-452-7	Sequence 7, Appl1	794	59.5	4.9	242	7	US-11-293-697-1119	Sequence 4119, Ap
722	60	5.0	302	6	US-10-953-349-26566	Sequence 26566, A	795	59.5	4.9	251	7	US-11-330-403-8512	Sequence 8512, Ap
723	60	5.0	314	6	US-10-526-324-1970	Sequence 1970, Ap	796	59.5	4.9	262	7	US-11-450-517-35	Sequence 35, Appl1
724	60	5.0	323	7	US-11-056-355B-1952	Sequence 1952, Ap	797	59.5	4.9	262	7	US-11-366-965-550	Sequence 350, App
725	60	5.0	341	7	US-11-174-307B-4240	Sequence 4240, Ap	798	59.5	4.9	269	7	US-10-953-355B-59304	Sequence 59304, A
726	60	5.0	351	7	US-11-056-355B-18536	Sequence 18536, A	799	59.5	4.9	277	6	US-10-953-349-15933	Sequence 15933, A
727	60	5.0	355	7	US-11-056-355B-1951	Sequence 1951, Ap	800	59.5	4.9	281	7	US-11-056-355B-59303	Sequence 59303, A
728	60	5.0	356	7	US-11-056-355B-18535	Sequence 18535, Ap	801	59.5	4.9	293	7	US-11-330-403-1997	Sequence 3997, Ap
729	60	5.0	372	6	US-10-449-902-54716	Sequence 54716, A	802	59.5	4.9	293	7	US-11-330-403-10067	Sequence 10067, A
730	60	5.0	378	6	US-10-953-349-17164	Sequence 17164, A	803	59.5	4.9	294	7	US-11-056-355B-30425	Sequence 30425, A
731	60	5.0	378	7	US-11-056-355B-52971	Sequence 52971, A	804	59.5	4.9	294	7	US-11-056-355B-34015	Sequence 34015, A
732	60	5.0	379	6	US-10-953-349-17163	Sequence 17163, A	805	59.5	4.9	294	7	US-11-056-355B-36522	Sequence 36522, A
733	60	5.0	379	7	US-11-056-355B-52970	Sequence 52970, A	806	59.5	4.9	294	7	US-11-056-355B-74050	Sequence 74050, A
734	60	5.0	389	6	US-10-953-349-24907	Sequence 24907, A	807	59.5	4.9	294	7	US-11-056-355B-74050	Sequence 74050, A
735	60	5.0	389	7	US-11-056-355B-52414	Sequence 52414, A	808	59.5	4.9	301	6	US-10-612-783-5516	Sequence 5516, Ap
736	60	5.0	395	6	US-10-449-902-37633	Sequence 37633, A	809	59.5	4.9	314	6	US-10-953-349-16711	Sequence 16711, A
737	60	5.0	404	7	US-11-056-355B-18534	Sequence 18534, A	810	59.5	4.9	314	6	US-10-449-902-15799	Sequence 45799, A
738	60	5.0	414	7	US-11-056-355B-1950	Sequence 1950, Ap	811	59.5	4.9	317	7	US-11-293-697-4449	Sequence 3449, Ap
739	60	5.0	420	6	US-10-449-902-4659	Sequence 4659, Ap	812	59.5	4.9	321	7	US-11-330-403-1151	Sequence 5151, Ap
740	60	5.0	454	6	US-10-449-902-52106	Sequence 52106, A	813	59.5	4.9	323	7	US-11-056-355B-36521	Sequence 36521, A
741	60	5.0	522	6	US-10-449-902-53507	Sequence 53507, A	814	59.5	4.9	323	7	US-11-056-355B-74049	Sequence 74049, A
742	60	5.0	535	7	US-11-335-927-2	Sequence 2, Appl1	815	59.5	4.9	332	6	US-10-953-349-15952	Sequence 15952, A
743	60	5.0	559	7	US-11-056-355B-100423	Sequence 100423, A	816	59.5	4.9	339	7	US-11-056-355B-4908	Sequence 4908, Ap
744	60	5.0	559	7	US-11-056-355B-111662	Sequence 111662, A	817	59.5	4.9	346	7	US-11-056-355B-30424	Sequence 30424, A
745	60	5.0	568	7	US-11-330-403-335	Sequence 335, App	818	59.5	4.9	346	7	US-11-056-355B-34014	Sequence 34014, A
746	60	5.0	570	7	US-11-056-355B-100422	Sequence 100422, A	819	59.5	4.9	352	7	US-11-056-355B-57089	Sequence 57089, A
747	60	5.0	570	7	US-11-056-355B-111661	Sequence 111661, A	820	59.5	4.9	373	6	US-10-953-349-15951	Sequence 15951, A
748	60	5.0	573	7	US-11-056-355B-111660	Sequence 111660, A	821	59.5	4.9	400	7	US-11-330-403-19112	Sequence 19112, A
749	60	5.0	573	7	US-11-056-355B-100421	Sequence 100421, A	822	59.5	4.9	406	6	US-10-953-349-16720	Sequence 16720, A
750	60	5.0	602	6	US-10-449-902-55884	Sequence 55884, A	823	59.5	4.9	406	6	US-10-449-902-13264	Sequence 43628, A
751	60	5.0	690	6	US-10-449-902-35444	Sequence 35444, A	824	59.5	4.9	409	6	US-10-953-349-33254	Sequence 23554, A
752	60	5.0	695	7	US-11-330-403-7874	Sequence 7874, Ap	825	59.5	4.9	411	6	US-10-530-187-102	Sequence 107, App
753	60	5.0	720	6	US-10-503-928-383	Sequence 383, Appl	826	59.5	4.9	411	7	US-11-389-432-106	Sequence 106, App
754	60	5.0	728	7	US-11-315-034-12	Sequence 12, Appl	827	59.5	4.9	412	6	US-10-449-902-54921	Sequence 54921, A
755	60	5.0	735	6	US-10-449-902-45464	Sequence 45464, A	828	59.5	4.9	416	6	US-10-953-349-33253	Sequence 23553, A
756	60	5.0	853	6	US-10-449-902-51854	Sequence 51854, A	829	59.5	4.9	424	6	US-10-953-349-33252	Sequence 23552, A

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831	59.5	4.9	438	6	US-10-953-349-16719	Sequence 16719, A	906	59	4.9	316	7	US-11-056-355B-95369	Sequence 95369, A
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843	59.5	4.9	550	6	US-10-449-902-55281	Sequence 55281, A	916	59	4.9	397	7	US-11-090-997-1784	Sequence 1784, App
844	59.5	4.9	553	6	US-10-449-902-50899	Sequence 50899, A	917	59	4.9	423	6	US-10-449-902-91129	Sequence 29129, A
845	59.5	4.9	579	6	US-10-953-349-23000	Sequence 23000, A	918	59	4.9	426	7	US-11-330-403-3589	Sequence 3589, App
846	59.5	4.9	601	7	US-11-189-279-17	Sequence 18, App1	919	59	4.9	450	6	US-10-953-349-17110	Sequence 17170, A
847	59.5	4.9	618	7	US-11-189-279-18	Sequence 17, App1	920	59	4.9	460	7	US-11-404-939-113	Sequence 513, App
848	59.5	4.9	618	7	US-11-056-355B-88765	Sequence 88765, A	921	59	4.9	474	6	US-10-982-908-16	Sequence 16, App1
849	59.5	4.9	618	7	US-11-056-355B-82525	Sequence 92525, A	922	59	4.9	474	6	US-10-982-908-16	Sequence 16, App1
850	59.5	4.9	634	7	US-11-189-279-16	Sequence 16, App1	923	59	4.9	500	7	US-11-361-871-24	Sequence 24, App1
851	59.5	4.9	638	7	US-11-056-355B-88768	Sequence 88768, A	924	59	4.9	506	7	US-11-197-712-466	Sequence 466, App
852	59.5	4.9	638	7	US-11-056-355B-92524	Sequence 88768, A	925	59	4.9	530	7	US-11-174-307B-4286	Sequence 4286, App
853	59.5	4.9	641	7	US-11-056-355B-70656	Sequence 70656, A	926	59	4.9	555	7	US-11-335-927-4	Sequence 4, App1
854	59.5	4.9	654	7	US-11-189-279-15	Sequence 15, App1	927	59	4.9	555	7	US-11-056-355B-91527	Sequence 91527, A
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857	59.5	4.9	706	7	US-11-056-355B-88159	Sequence 88159, A	930	59	4.9	735	6	US-10-449-902-44112	Sequence 44112, A
858	59.5	4.9	722	7	US-11-056-355B-88767	Sequence 88767, A	931	59	4.9	743	7	US-11-330-403-1199	Sequence 1199, App
859	59.5	4.9	722	7	US-11-056-355B-92523	Sequence 92523, A	932	59	4.9	753	7	US-11-366-965-495	Sequence 495, App
860	59.5	4.9	745	7	US-11-056-355B-70654	Sequence 70654, A	933	59	4.9	756	7	US-11-090-997-154	Sequence 154, App
861	59.5	4.9	824	7	US-11-330-403-6042	Sequence 6042, App	934	59	4.9	759	7	US-11-363-271-26	Sequence 26, App
862	59.5	4.9	834	7	US-11-330-403-8867	Sequence 9867, App	935	59	4.9	789	7	US-11-389-432-90	Sequence 90, App1
863	59.5	4.9	851	7	US-11-251-208-43	Sequence 43, App1	936	59	4.9	800	7	US-11-434-137-1606	Sequence 1606, App
864	59.5	4.9	990	7	US-11-330-403-2845	Sequence 2845, App	937	59	4.9	800	7	US-11-434-137-8586	Sequence 8586, App
865	59.5	4.9	1023	7	US-11-330-403-5093	Sequence 5093, App	938	59	4.9	800	7	US-11-434-137-8586	Sequence 8586, App
866	59.5	4.9	1086	7	US-11-325-276-10	Sequence 10, App1	939	59	4.9	800	7	US-11-434-184-1606	Sequence 1606, App
867	59.5	4.9	1922	7	US-11-339-733-48	Sequence 48, App1	940	59	4.9	800	7	US-11-434-184-8586	Sequence 8586, App
868	59.5	4.9	1922	7	US-11-107-336-104	Sequence 104, App	941	59	4.9	800	7	US-11-434-199-1606	Sequence 1606, App
869	59.5	4.9	1924	6	US-10-512-386-56	Sequence 56, App1	942	59	4.9	800	7	US-11-434-199-8586	Sequence 8586, App
870	59.5	4.9	1924	6	US-10-997-086-2	Sequence 2, App1	943	59	4.9	802	7	US-11-434-203-1606	Sequence 1606, App
871	59	4.9	58	6	US-10-449-902-35134	Sequence 35134, A	944	59	4.9	802	7	US-11-434-203-8586	Sequence 8586, App
872	59	4.9	167	7	US-11-440-093-14	Sequence 14, App1	945	59	4.9	803	6	US-10-953-349-5563	Sequence 5563, App
873	59	4.9	167	7	US-11-440-093-15	Sequence 15, App1	946	59	4.9	803	7	US-11-056-355B-32847	Sequence 32847, A
874	59	4.9	181	6	US-10-952-500-68	Sequence 68, App1	947	59	4.9	803	7	US-11-056-355B-32847	Sequence 32847, A
875	59	4.9	195	7	US-11-056-355B-27036	Sequence 27036, A	948	59	4.9	803	7	US-11-056-355B-32847	Sequence 32847, A
876	59	4.9	195	7	US-11-056-355B-105620	Sequence 105620, A	949	59	4.9	803	7	US-11-056-355B-102579	Sequence 102579, A
877	59	4.9	195	7	US-11-056-355B-116859	Sequence 116859, A	950	59	4.9	805	6	US-10-953-349-5562	Sequence 5562, App
878	59	4.9	196	7	US-11-056-355B-24321	Sequence 24321, A	951	59	4.9	805	7	US-11-056-355B-29256	Sequence 29256, App
879	59	4.9	233	7	US-11-295-006-17	Sequence 17, App1	952	59	4.9	805	7	US-11-056-355B-132846	Sequence 132846, A
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882	59	4.9	239	7	US-11-211-917-40	Sequence 40, App1	955	59	4.9	805	7	US-11-056-355B-113817	Sequence 113817, A
883	59	4.9	239	7	US-11-412-335-8	Sequence 8, App1	956	59	4.9	805	7	US-11-056-355B-113817	Sequence 113817, A
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886	59	4.9	285	7	US-11-434-184-90	Sequence 90, App1	959	59	4.9	805	7	US-11-056-355B-113817	Sequence 113817, A
887	59	4.9	285	7	US-11-434-184-90	Sequence 90, App1	960	59	4.9	805	7	US-11-056-355B-113817	Sequence 113817, A
888	59	4.9	285	7	US-11-434-203-50	Sequence 90, App1	961	59	4.9	805	7	US-11-056-355B-113817	Sequence 113817, A
889	59	4.9	287	7	US-11-272-528-6	Sequence 6, App1	962	59	4.9	805	7	US-11-056-355B-113817	Sequence 113817, A
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981	58.5	4.9	143	7	US-11-434-184-794	Sequence 794, App	1054	58.5	4.9	400	7	US-11-056-3558-115162	Sequence 115162, A
982	58.5	4.9	143	7	US-11-434-199-794	Sequence 794, App	1055	58.5	4.9	426	7	US-11-226-554-140	Sequence 140, App
983	58.5	4.9	143	7	US-11-434-203-794	Sequence 794, App	1056	58.5	4.9	426	7	US-11-248-718-140	Sequence 140, App
984	58.5	4.9	144	7	US-11-293-697-2843	Sequence 2843, App	1057	58.5	4.9	440	6	US-10-449-902-28996	Sequence 28996, A
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989	58.5	4.9	184	7	US-11-123-692-67	Sequence 67, Appl	1062	58.5	4.9	444	7	US-11-056-3558-33000	Sequence 39000, A
990	58.5	4.9	184	7	US-11-123-692-68	Sequence 68, Appl	1063	58.5	4.9	444	7	US-11-056-3558-139322	Sequence 103922, A
991	58.5	4.9	184	7	US-11-123-692-74	Sequence 74, Appl	1064	58.5	4.9	444	7	US-11-056-3558-15161	Sequence 115161, A
992	58.5	4.9	184	7	US-11-123-692-76	Sequence 76, Appl	1065	58.5	4.9	466	7	US-11-073-360-240	Sequence 240, App
993	58.5	4.9	184	7	US-11-123-692-77	Sequence 77, Appl	1066	58.5	4.9	466	7	US-10-374-7804-18443	Sequence 1843, App
994	58.5	4.9	184	7	US-11-123-692-78	Sequence 78, Appl	1067	58.5	4.9	479	6	US-10-574-398-265	Sequence 265, App
995	58.5	4.9	184	7	US-11-123-692-85	Sequence 85, Appl	1068	58.5	4.9	485	6	US-10-449-902-50321	Sequence 50321, A
996	58.5	4.9	184	7	US-11-123-692-86	Sequence 86, Appl	1069	58.5	4.9	514	7	US-11-123-692-2	Sequence 2, Appl
997	58.5	4.9	184	7	US-11-123-692-107	Sequence 107, App	1070	58.5	4.9	514	7	US-11-123-692-4	Sequence 4, Appl
998	58.5	4.9	184	7	US-11-123-692-108	Sequence 108, App	1071	58.5	4.9	537	6	US-10-953-349-24962	Sequence 24962, A
999	58.5	4.9	213	6	US-10-515-429-74	Sequence 74, Appl	1072	58.5	4.9	539	7	US-11-123-692-36	Sequence 36, Appl
1000	58.5	4.9	214	7	US-11-106-762-9	Sequence 9, Appl	1073	58.5	4.9	539	7	US-11-123-692-37	Sequence 37, Appl
1001	58.5	4.9	216	6	US-10-526-762-1641	Sequence 1641, Ap	1074	58.5	4.9	539	7	US-11-123-692-42	Sequence 42, Appl
1002	58.5	4.9	237	7	US-11-106-762-8	Sequence 8, Appl	1075	58.5	4.9	539	7	US-11-123-692-43	Sequence 43, Appl
1003	58.5	4.9	238	7	US-11-056-3558-55091	Sequence 55091, A	1076	58.5	4.9	539	7	US-11-123-692-44	Sequence 44, Appl
1004	58.5	4.9	241	7	US-11-056-3558-55090	Sequence 55090, A	1077	58.5	4.9	539	7	US-11-123-692-45	Sequence 45, Appl
1005	58.5	4.9	248	7	US-11-056-3558-60440	Sequence 60440, A	1078	58.5	4.9	539	7	US-11-123-692-46	Sequence 46, Appl
1006	58.5	4.9	251	6	US-10-953-349-38140	Sequence 38140, A	1079	58.5	4.9	539	7	US-11-123-692-47	Sequence 47, Appl
1007	58.5	4.9	261	7	US-11-056-3558-101409	Sequence 101409, A	1080	58.5	4.9	539	7	US-11-123-692-48	Sequence 48, Appl
1008	58.5	4.9	261	7	US-11-056-3558-112648	Sequence 112648, A	1081	58.5	4.9	539	7	US-11-123-692-49	Sequence 49, Appl
1009	58.5	4.9	263	7	US-11-056-3558-101408	Sequence 101408, A	1082	58.5	4.9	552	6	US-10-612-783-5440	Sequence 5440, Ap
1010	58.5	4.9	263	7	US-11-056-3558-112647	Sequence 112647, A	1083	58.5	4.9	539	6	US-10-449-902-43073	Sequence 43073, A
1011	58.5	4.9	267	6	US-10-526-324-1724	Sequence 1724, Ap	1084	58.5	4.9	607	6	US-10-449-902-50136	Sequence 50136, A
1012	58.5	4.9	267	7	US-11-056-3558-60439	Sequence 60439, A	1085	58.5	4.9	607	6	US-10-449-902-52539	Sequence 52539, A
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1015	58.5	4.9	286	7	US-11-386-937-36	Sequence 36, Appl	1088	58.5	4.9	619	7	US-11-056-3558-46958	Sequence 46958, A
1016	58.5	4.9	292	7	US-11-330-403-13977	Sequence 13977, A	1089	58.5	4.9	628	7	US-11-448-387-18	Sequence 18, Appl
1017	58.5	4.9	299	7	US-11-265-762-144	Sequence 144, App	1090	58.5	4.9	630	7	US-11-056-3558-443357	Sequence 443357, A
1018	58.5	4.9	300	6	US-10-700-439-101	Sequence 101, App	1091	58.5	4.9	634	6	US-10-953-349-24961	Sequence 24961, A
1019	58.5	4.9	300	7	US-11-242-111-23	Sequence 23, Appl	1092	58.5	4.9	634	6	US-11-056-3558-88775	Sequence 88775, A
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1021	58.5	4.9	300	7	US-11-274-634-15	Sequence 15, Appl	1096	58.5	4.9	643	6	US-10-953-349-24960	Sequence 24960, A
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1025	58.5	4.9	314	1	US-09-981-845-1	Sequence 1, Appl	1100	58.5	4.9	951	6	US-10-449-902-51860	Sequence 51860, A
1026	58.5	4.9	314	7	US-11-043-842-552	Sequence 552, App	1101	58.5	4.9	1309	7	US-11-358-419-82	Sequence 82, Appl
1027	58.5	4.9	320	7	US-11-056-3558-98352	Sequence 98352, A	1102	58.5	4.9	3863	6	US-10-502-394-51	Sequence 51, Appl
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1029	58.5	4.9	320	6	US-10-511-937-2511	Sequence 2511, Ap	1104	58	4.8	131	6	US-10-449-902-39081	Sequence 39081, A
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1044	58.5	4.9	395	7	US-11-056-3558-31936	Sequence 31936, A	1119	58	4.8	250	6	US-10-374-7804-2880	Sequence 2880, Ap
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1129	58	4.8	300	6	US-10-449-902-50737	Sequence 50737, A	1202	57.5	4.8	243	6	US-10-523-834-265	Sequence 390, App
1130	58	4.8	306	7	US-11-056-355B-4335	Sequence 4335, Ap	1203	57.5	4.8	244	6	US-10-953-349-8692	Sequence 26992, A
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1133	58	4.8	309	7	US-11-056-355B-104176	Sequence 104176, A	1206	57.5	4.8	264	7	US-11-056-355B-42727	Sequence 42727, A
1134	58	4.8	309	7	US-11-056-355B-115415	Sequence 115415, A	1207	57.5	4.8	264	7	US-11-056-355B-85823	Sequence 85823, A
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1140	58	4.8	328	7	US-11-056-355B-115414	Sequence 115414, A	1213	57.5	4.8	302	6	US-10-669-920-93	Sequence 93, Appl
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1145	58	4.8	366	7	US-11-056-355B-72473	Sequence 72473, A	1218	57.5	4.8	335	6	US-10-953-349-1592	Sequence 1592, Ap
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1153	58	4.8	413	6	US-10-953-349-263	Sequence 263, App	1226	57.5	4.8	352	7	US-11-056-355B-80670	Sequence 80670, A
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1164	58	4.8	492	7	US-11-330-403-716	Sequence 716, App	1237	57.5	4.8	385	7	US-11-056-355B-112428	Sequence 112428, A
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1170	58	4.8	759	7	US-11-056-355B-106852	Sequence 106852, A	1243	57.5	4.8	410	6	US-10-449-902-37465	Sequence 37465, A
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1186	57.5	4.8	184	7	US-11-123-692-64	Sequence 64, Appl	1259	57.5	4.8	428	6	US-10-743-891A-51	Sequence 51, Appl
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1203	57.5	4.8	184	7	US-11-123-692-66	Sequence 66, Appl	1276	57.5	4.8	428	6	US-10-743-891A-51	Sequence 51, Appl
1204	57.5	4.8	184	7	US-11-123-692-66	Sequence 66, Appl	1277	57.5	4.8	428	6	US-10-743-891A-51	Sequence 51, Appl
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1275	57.5	4.8	480	7	US-11-056-355B-73033	Sequence 73033, A	1348	57.5	4.8	756	7	US-11-310-403-6396	Sequence 6396, Ap
1276	57.5	4.8	485	7	US-11-056-355B-4445	Sequence 4445, A	1349	57.5	4.8	800	6	US-10-612-783-6988	Sequence 6988, Ap
1277	57.5	4.8	486	7	US-11-056-355B-13936	Sequence 13936, A	1350	57.5	4.8	801	7	US-11-448-552-1	Sequence 1, Appl1
1278	57.5	4.8	487	6	US-10-743-891A-21	Sequence 21, Appl1	1351	57.5	4.8	807	7	US-11-293-697-2725	Sequence 2725, Ap
1279	57.5	4.8	489	7	US-11-056-355B-89978	Sequence 89978, A	1352	57.5	4.8	878	7	US-11-434-137-1912	Sequence 1912, Ap
1280	57.5	4.8	489	7	US-11-056-355B-93734	Sequence 93734, A	1353	57.5	4.8	878	7	US-11-434-184-1912	Sequence 1912, Ap
1281	57.5	4.8	492	6	US-10-953-349-22011	Sequence 22011, A	1354	57.5	4.8	878	7	US-11-434-199-1912	Sequence 1912, Ap
1282	57.5	4.8	494	7	US-11-056-355B-43696	Sequence 43696, A	1355	57.5	4.8	878	7	US-11-434-203-1912	Sequence 1912, Ap
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1284	57.5	4.8	494	7	US-11-056-355B-93733	Sequence 93733, A	1357	57.5	4.8	984	7	US-11-090-997-1680	Sequence 1680, Ap
1285	57.5	4.8	509	6	US-10-449-902-35618	Sequence 35618, A	1358	57.5	4.8	991	6	US-10-743-891A-27	Sequence 27, Appl1
1286	57.5	4.8	509	7	US-11-056-355B-4444	Sequence 4444, A	1359	57.5	4.8	1000	6	US-10-743-891A-25	Sequence 25, Appl1
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Search completed: November 19, 2006, 04:43:58
Job time : 58 secs